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DOMESTIC MEDICINE:

OR, A

TREATISE

ON THE

PREVENTION AND CURE

OF

DISEASES,

BY REGIMEN AND SIMPLE MEDICINES:

WITH

AN APPENDIX,

CONTAINING A DISPENSATORY FOR THE USE OF . PRIVATE PRACTITIONERS.

BY WILLIAM BUCHAN, M. D.

FELLOW OF THE ROYAL COLLEGE OF PHYSICIANS,
EDINBURGH.

ADAPTED TO THE

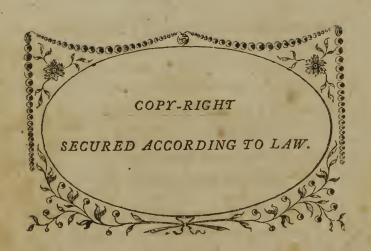
Climate and Difeases of America,
BY ISAAC CATHRALL.

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PREFACE.

MONG the motives which have induced me to republish Dr. Buchan's book on Domestic Medicine, is that of rendering it more extensively useful to the inhabitants of the United States of America, by accommodating it to their difeases. Although it contains a comprehensive description of the diseases incident to the nations of Europe, and is too well known by its celebrity to the world, to require any encomium from me, yet the variety to which diseases are subject from climate, makes it fomewhat deficient when applied to those of America: To supply that defect is the object of this publication. How far I have succeeded in the accomplishment of my defign, must be decided by the candour of the public, to whose judgment it is now with diffidence fubmitted, without any farther apology than a conciousness of meaning well, and a desire of soliciting that portion of indulgence, which is due to every attempt to promote the good of mankind.

Isaac Cathrall.

Philadelphia, August 20, 1797.

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ADVERTISEMENT.

SIXTEEN years have elapfed, fince the first edition of this book appeared. During that period, the author has taken occasion to improve several articles, inserted in the more early impressions. For this he has been censured; but it would be unpardonable in the writer, to suffer an error in a book, on which health and life may depend, to stand uncorrected; or, to perceive an omission, and leave it unsupplied. His improvements are not the result of mercenary views. The same principle which prompted him to write the book, will ever induce him to improve it, to the utmost of his power.

The author regrets, that the limits of one volume preclude many interesting observations, and likewise deprive him of the pleasure of inserting a number of very useful remarks, made by doctor DUPLANIL, of Paris, who published an elegant translation of this

work, in five volumes octavo, with a commentary.

The improvements of the later editions are chiefly inferted in the form of notes. These are intended either to illustrate the text, or to put people on their guard in dangerous situations, and prevent

fatal mistakes in the practice of medicine.

Although the DOMESTIC MEDICINE was never intended to fupercede the use of a physician, but to supply his place in situations where medical assistance could not easily be obtained; yet the author is forry to observe, that the jealousies and fears of the faculty, have prompted many of them to treat this work, in a manner unbecoming the professors of liberal science: notwithstanding their injurious treatment, he is determined to persist in his plan, being sully convinced of its utility; nor shall interest, or prejudice, ever deter him from exerting his best endeavours to render the medical

art more extensively beneficial to MANKIND.

But this treatment of the faculty, is not the only thing of which the author has cause to complain. By some of them his book has been served up mangled and mutilated, and its title, type, size, &c. so closely imitated, that purchasers are misled, and frequently buy these spurious productions instead of the real one. That a needy author, incapable himself of producing an original work, should prey upon another, is a thing not at all to be wondered at: but that all this can be done with impunity, shews, that the laws of this country, respecting literary property, are still in a very imperfect state.

LONDON,

Nov. 10, 1785.

PREFACE.

HEN I first signified my intention of publishing the following sheets, I was told by my friends, that it would draw on me the resentment of the whole faculty. I resolved to make the experiment; which came out as might have been expected. Many whose learning and liberality of sentiments do honour to medicine, received the book with indulgence, and the falsity of the opinion, that every physician wishes to conceal his art; while the felsish and narrow-minded, perfecute both the book and its author, shewed the reception, however, which this work has met with from the public, merits my most grateful acknowledgments. As the best way of expressing these, I have endeavoured to render it more generally useful, by enlarging that part which treats of preventing diseases; and by adding many articles which had been entirely omitted in the former impressions. It is needless to enumerate these additions: I hope that they will be found real improvements.

This was so apparent, as, with me, to amount to a proof of the fellowing melancholy sact: That almost one half of the human species perish in infancy, by improper management or neglect. No one, who has not had an opportunity of observing them, can imagine what abturd and ridiculous practices still prevail in the nursing and management of infants, and what numbers of lives are by that means lost to society. As these practices are chiefly owing to ignorance, it is to be hoped that when nurses are better informed,

their conduct will be very different.

The observations relative to nursing and the management of children, were chiefly suggested by an extensive practice among infants, in a large branch of the Foundling Hospital, where I had an opportunity not only of treating the diseases incident to child-hood, but likewise of trying different plans of nursing, and of observing their effects. Whenever I had it in my power to place the children under the care of proper nurses, to instruct these nurses in their duty, and to be satisfied that they perform it, very sew of them died; but when, from distance of place, and other unavoidable circumstances, the children were left to the sole care of mercenary nurses, without any person to instruct or superintend them, scarce any of them lived.

The application of medicine to the various occupations of life, has been, in general, the refult of observation. An extensive practice for several years, in one of the largest manufacturing towns in England, afforded me sufficient opportunities of observing the injuries which those useful people sustain from their particular employments, and likewise of trying various methods of obviating

fuch injuries. The fuccess which attended these trials was sufficient to encourage this attempt, which, I hope, will be of use to those who are under the necessity of earning their bread by such

employments as are unfavourable to health.

I do not mean to intimidate men, far lefs to infinuate that even those arts, the practice of which is attended with some degree of danger, should not be carried on; but to guard the lefs cautious and unwary against those dangers which they have it in their power to avoid, and which they often, through mere ignorance, incur. As every occupation in life, disposes those who follow it, to some particular diseases more than to others, it is of importance to know these, that people may guard against them. It is better to be warned of the approach of an enemy, than to be surprised by him.

The observations concerning diet, air, exercise, &c. are of a more general nature, and have not escaped the attention of physicians in any age. They are subjects of too great importance, however, to be passed over in an attempt of this kind, and can never be sufficiently recommended. The man who pays a proper attention to these, will seldom need the physician; and he who does not, will seldom enjoy health, let him employ as many physicians as

lie pleases.

Though I have endeavoured to point out the causes of diseases, and to put people upon their guard against them, yet they are often of such a nature, as to be removed only by the diligence and activity of the public magistrate. I am forry, indeed, to observe, that the power of the magistrate is seldom exerted in this country for the preservation of health. The importance of a proper medical police is either not understood, or little regarded. Many things highly injurious to the public health are daily practised with impunity, while others, absolutely necessary for its preservation, are entirely neglected.

Some of the public means of preserving health are mentioned in the general prophylaxis, as the inspection of provisions, widening the streets of great towns, keeping them clean, supplying the inhabitants with wholesome water, &c.; but they are passed over in a very cursory manner. A proper attention to these, would have swelled this volume to too large a size; I have therefore reserved

them for the subject of a future publication.

In the treatment of diseases, I have been peculiarly attentive to regimen. The generality of people lay too much stress upon medicine, and trust too little to their own endeavours. It is always in the power of the patient, or of those about him, to do as much towards his recovery as can be effected by the physician. By not attending to this, the designs of medicine are often frustrated; and the patient, by pursuing a wrong plan of regimen, not only deseats the doctor's endeavours, but renders them dangerous. I have often known patients killed by an error in regimen, when

they were using very proper medicines. It will be faid, the physician always orders the regimen when he prescribes a medicine. I wish it were so, both for the honour of the faculty and the safety of their patients: but physicians, as well as other people, are too

little attentive to this matter.

I hough many reckon it doubtful whether medicines are more beneficial or hurtful to mankind, yet all allow the necessity and importance of a proper regimen in diseases. Indeed, the very appetites of the sick prove its propriety. No man in his senses ever imagined that a person in a sever, for example, could cat, drink, or conduct himself in the same manner as one in persect health. This part of medicine, therefore, is evidently sounded in nature, and is consistent with reason and common sense. Had men been more attentive to it, and less solicitous in hunting after secret remedics, medicine had never become an object of ridicule.

Indeed, this feems to have been the first idea of medicine. The ancient physicians acted chiesly in the capacity of nurses. They went very little beyond aliment in their prescriptions; and even this they generally administered themselves, attending the sick, for that purpose, through the whole course of the disease; which gave them an opportunity not only of marking the changes of diseases with great accuracy, but likewise of observing the effects of their

different applications, and adapting them to the symptoms.

Dr. Arbuthnot afferts, that by a proper attention to those things, which are almost within the reach of every body, more good and less mischief will be done in acute diseases, than by medicines improperly and unseasonably administered; and that great cures may be effected in chronical distempers, by a proper regimen of the diet only. So entirely do the doctor's sentiments and mine agree, that I would advise every person, ignorant of physic, to confine his practice solely to diet, and the other parts of regimen; by which means he may often do much good, and can seldom do any hurt.

This feems also to have been the opinion of Dr. Huxham, who observes, that we often feek from art what all-bountiful nature most readily, and as effectually, offers us, had we diligence and segacity enough to observe and make use of them; that the dietetic part of medicine is not so much studied as it ought to be; and that, though less pompous, yet it is the most natural method of

curing discases.

To render the book more generally useful, however, as well as more acceptable to the intelligent part of mankind, I have, in most diseases, besides regimen, recommended some of the most simple and approved forms of medicine, and added such cautions and directions as seemed necessary for their safe administration. It would no doubt have been more acceptable to many, had it abounded with pompous prescriptions, and promised great cures in consequence of their use; but this was not my plan: I think the administration of medicines always doubtful, and often dangerous,

and would much rather teach men how to avoid the necessity of

using them, than how they should be used.

Several medicines, and those of considerable efficacy, may be administered with great freedom and safety. Physicians generally trisse a long time with medicines before they learn their proper use. Many peasants at present know better how to use some of the most important articles in the materia medica, than physicians did a century ago; and doubtless the same observation will hold with regard to others some time hence. Wherever I was convinced that medicine might be used with safety, or where the cure depended chiefly upon it, I have taken care to recommend it; but where it was either highly dangerous, or not very necessary, it is omitted.

I have not troubled the reader with an useless parade of quotations from different authors; but have, in general, adopted their observations where my own were either defective, or totally wanting. Those to whom I am most obliged are, Ramazini, Arbuthnot, and Tissot; the last of which, in his Avis au Peuple, comes the nearest to my views of any author which I have seen. Had his plan been as complete as the execution is masterly, we should have had no occasion for any new treatise of this kind soon; but by confining himself to the acute diseases, he has, in my opinion, omitted the most useful part of his subject. People in acute diseases may sometimes be their own physicians; but in the chronic, the cure must ever depend chiefly upon the patient's own endeavours. The doctor has also passed over the Prophlyaxis, or preventive part of medicine, very slightly, though it is certainly of the greatest importance in such a work.

Several other foreign physicians of eminence, have written on nearly the same plan with Tissot, as the baron Van Swieten, physician to their imperial magcstics, M. Rosen, first physician of the kingdom of Sweden, &c.; but their productions have never come to my hand. I wish that some of our distinguished countrymen would follow their example. There still remains much to be done on this subject, and no man could better employ his time or talents than in eradicating hurtful prejudices, and dissusing useful know-

ledge among the people.

Some of the faculty disapprove every attempt of this nature, imagining that it must destroy their influence. But this notion appears to me to be as absurd as it is illiberal. People in distress will always apply for relief to men of superior abilities, when they have it in their power; and they will do this with far greater considence and readiness, when they believe that medicine is a rational science, than when they take it to be only a matter of mere conjecture.

Though I have endeavoured to render this treatife plain and useful, yet I found it impossible to avoid some terms of art; but those are, in general, either explained, or are such as most people understand. In short, I have endeavoured to conform my stile to the capacities of mankind in general; and, if my readers do not slatter either themselves or me, with some degree of success. On a medical subject, this is not so casy a matter as some may imagine. To make a show of learning, is easier than to write plain sense, especially in a science, which has been kept at such a distance from common observation. It would, however, be no difficult matter to prove, that every thing valuable in the practical part of medicine, is within the reach of common abilities.

It would be ungenerous not to express my warmest acknowledgments to those gentlemen, who have endeavoured to extend the usefulness of this performance, by translating it into the language of their respective countries. Most of them have not only given elegant translations of the book, but have also enriched it with many useful observations; by which it is rendered more complete, and better adapted to the climate and the constitutions of their countrymen. To doctor Duplanil of Paris, physician to the count d'Artois, I lie under particular obligations; as this gentleman has not only considerably enlarged my treatise; but, by his very ingenious and useful notes, has rendered it so popular on the continent, as to occasion its being translated into all the languages of modern Europe.

The book has not more exceeded my expectations in its fucces, than in the effects it has produced. Some of the most pernicious practices, with regard to the treatment of the sick, have already given place to a more rational conduct; and many of the most hurtful prejudices, which seemed to be quite insurmountable, have, in a great measure, yielded to better information. Of this, a stronger instance cannot be given, than the inoculation of the smallpox. Few mothers, some years ago, would submit to have their children inoculated, even by the hand of a physician; yet nothing is more certain, than that of late, many of them have performed this operation with their own hands; and as their success has been equal to that of the most dignished inoculators, there is little reason to doubt that the practice will become general. Whenever this shall be the case, more lives will be saved by inoculation alone, than are at present by all the endeavours of the faculty.

INTRODUCTION.

HE improvements in medicine, fince the revival of learning, have not kept pace with those of the other arts. The reason is obvious. Medicine has been studied by few, except those who intended to live by it as a trade. Such, either from a mistaken zeal for the honor of medicine, or to raise their own importance, have endeavoured to disguise and conceal the art. Medical authors have generally written in a foreign language; and those who were unequal to this task, have even valued themselves upon couching, at least, their prescriptions, in terms and characters, unintelligible to the rest of mankind.

The contentions of the clergy, which happened foon after the reftoration of learning, engaged the attention of mankind, and paved the way for that freedom of thought and enquiry, which has fince prevailed in most parts of Europe, as to religious matters. Every man took a side in those bloody disputes; and every gentleman, that he might distinguish himself on one side or other, was instructed in divinity. This taught people to think and reason for themselves in matters of religion, and at last destroyed that complete and absolute dominion, which the clergy had obtained over the minds of men.

The study of law has likewise, in the most civilized nations, been justly deemed the necessary part of the education of a gentleman. Every gentleman ought certainly to know at least the laws of his own country: And, if he were also acquainted with those of others,

it might be more than barely an ornament to him.

The different branches of philosophy have also of late been universally studied by all who pretended to a liberal education. The advantages of this are manifest. It frees the mind from prejudice and superstition; fits it for the investigation of truth; induces habits of reasoning and judging properly; opens an inexhaustible source of entertainment; paves the way to the improvement of arts and agriculture; and qualifies men for acting with propriety in the most important stations of life.

Natural History is likewise become an object of general attention. And it well deserves to be so. It leads to discoveries of the greatest importance. Indeed, agriculture, the most useful of all arts, is only a branch of natural history, and can never arrive at a high degree of improvement, where the study of that science is ne-

glected.

Medicine, however, has not been reckoned a necessary part of the education of a gentleman. No sufficient reason can be assigned for this omission. No science lays open a more extensive field of useful

knowledge, or affords more ample entertainment to an inquisitive mind. Anatomy, Botany, Chemistry, and the Materia Medica, are all branches of natural history, and are fraught with such amusement and utility, that the man who entirely neglects them, has but a forry claim, either to taste or learning. If a gentleman has a turn for observation, says an elegant and sensible writer*, surely the natural history of his own species is a more interesting subject, and presents a more ample field for the exertion of genius, than the natural history of spiders and cockle-shells.

We do not mean that every man should become a physician. This would be an attempt as ridiculous as it is impossible. All we plead for, is, that men of sense and learning, should be so far acquainted with the general principles of medicine, as to be in a condition to derive from it some of those advantages with which it is fraught; and at the same time to guard themselves against the destructive influences of Ignorance, Superstition, and Quackery.

As matters stand at present, it is easier to cheat a man out of his life than of a shilling, and almost impossible either to detect or punish the offender. Nothwithstanding this, people will shut their eyes, and take every thing upon trust that is administered by any pretender to medicine, without daring to ask him a reason for any part of his conduct. Implicit faith, every where else the object of ridicule, is still sacred here. Many of the faculty are, no doubt, worthy of all the considence that can be reposed in them; but as this can never be the character of every individual in any prosession, it would certainly be for the safety, as well as the honour of mankind, to have some check upon the conduct of those to whom they intrust so valuable a treasure as health.

The veil of mystery, which still hangs over medicine, renders it not only a conjectural, but even a suspicious art. This has been long ago removed from the other sciences, which induces many to believe that medicine is a mere trick, and that it will not bear a fair and candid examination. Medicine, however, needs only to be better known, in order to secure the general esteem of mankind. Its precepts are such, as every wise man would chuse to observe, and it forbids nothing, but what is incompatible with true happiness.

Disguising medicine, not only retards its improvement as a science, but exposes the profession to ridicule, and is injurious to the true interests of society. An art founded on observation never can arrive at any high degree of improvement, while it is confined to a few who make a trade of it. The united observations of all the ingenious and sensible part of mankind, would do more in a few years towards the improvement of medicine, than those of the faculty alone in a great many. Any man can tell when a medicine gives him ease, as well as a physician; and if he only knows the name and dose of the medicine, and the name of the disease, it is

fusficient to perpetuate the fact. Yet the man who adds one single fact to the stock of medical observations, does more real service to the art, than he who writes a volume in support of some favourite

hypothesis.

Very few of the valuable discoveries in medicine have been made by physicians. They have, in general, either been the effect of chance or of necessity, and have been usually opposed by the faculty, till every one else was convinced of their importance. An implicit faith in the opinions of teachers, an attachment to systems and established forms, and the dread of reflexions, will always operate upon those who follow medicine as a trade. Few improvements are to be expected from a man who might ruin his character and family by even the smallest deviation from an established rule.

If men of letters, fays the author of the performance quoted above, were to claim their right of enquiry into a matter that so nearly concerns them, the good effects on medicine would soon appear. Such men would have no separate interest from that of the art. They would detect and expose assuming ignorance under the mask of gravity and importance, and would be the judges and patrons of modest merit. Not having their understandings perverted in their youth by salse theories, unawed by authority, and unbiassed by interest, they would canvass with freedom the most universally received principles in medicine, and expose the uncertainty of many of those doctrines, of which a physician dares not so much as seem to doubt.

No argument, continues he, can be brought against laying open medicine, which does not apply with equal, if not greater force, to religion; yet experience has shown, that, since the laity have afferted their right of enquiry into these subjects, theology, considered as a science, has been improved, the interests of real religion have been promoted, and the clergy have become a more learned, a more useful, and a more respectable body of men, than they ever

were in the days of their greatest power and splendour.

Had other medical writers been as honest as this gentleman, the art had been upon a very different footing at this day. Most of them extol the merit of those men, who brought philosophy out of the schools, and subjected it to the rools of common sense. But they never consider that medicine, at present, is in nearly the same situation as philosophy was in at that time, and that it might be as much improved by being treated in the same manner. Indeed, no science can either be rendered rational or useful, without being submitted to the common sense and reason of mankind. These alone stamp a value upon science; and what will not bear the test of these, ought to be rejected.

It will be faid, that diffusing medical knowledge among the people, might induce them to tamper with medicine, and to trust to their own skill instead of calling a physician. The reverse of this is true. Persons who have most knowledge in these matters are commonly most ready both to ask and to follow advice, when it is necessary. The ignorant are always most apt to tamper with medicine, and have the least confidence in physicians. Instances of this are daily to be met with among the ignorant peasants, who, while they absolutely refuse to take a medicine which has been prescribed by a physician, will swallow, with greediness, any thing that is recommended to them by their credulous neighbours. Where men will act even with knowledge, it is certainly more rational to afford them all the light we can, than to leave them entirely in the dark.

It may also be alleged, that laying medicine more open to mankind would lessen their faith in it. This would indeed be the case with regard to some; but it would have a quite contrary essect upon others. Many people who have the utmost dread and horror of every thing prescribed by a physician, will readily take a medicine which they know, and whose qualities they are in some measure acquainted with. Hence it is evident, that the dread arises from the doctor, not from the drug. Nothing ever can or will inspire mankind with an absolute considence in physicians, but an open, frank, and undisguised behaviour. While the least shadow of mystery remains in the conduct of the faculty, doubts, jealcusies, and suspicions, will arise in the minds of men.

Cases will sometimes occur, where a prudent physician may find it expedient to disguise a medicine. The whims and humours of men must be regarded by those who mean to do them service; but this can never affect the general argument in favour of candour and openness. A man might as well allege, because there are knaves and fools in the world, that he ought to take every one he meets for such, and to treat him accordingly. A sensible physician will always know where disguise is necessary; but it ought never to

appear on the face of his general conduct.

The appearance of mystery in the conduct of physicians not only renders their art suspicious, but lays the soundations of quackery. No two characters can be more different than that of the honest physician and the quack; yet they have been much confounded. The line betwixt them is not sufficiently apparent; at least it is too sine for the general eye. Few persons are able to distinguish sufficiently between the conduct of that man who administers a secret medicine, and him who writes a prescription in mystical characters and in an unknown tongue. Thus the conduct of the honest physician, which needs no disguise, gives a fanction to that of the villain, whose whose consequence depends upon secrecy.

No laws will ever be able to prevent quackery, while people believe that the quack is as honest a man, and as well qualified, as the physician. A very small degree of medical knowledge, however, would be sufficient to break this spell; and nothing else can effectually undeceive them. It is the ignorance and credulity of the multitude, with regard to madicine, which render them such an

easy prey to every one, who has the hardiness to attack them on this quarter. Nor can the evil be remedied by any other means but

making them wifer.

The most effectual way to destroy quackery in any art or science, is to diffuse the knowledge of it among mankind. Did physicians write their prescriptions in the common language of the country, and explain their intentions to the patient, as far as he could understand them, it would enable him to know when the medicine had the desired effect; would inspire him with considence in the physician; and make him dread and detest every man who pretended to cram a secret-medicine down his throat.

Men, in the different states of society, have very different views of the same object. Some time ago it was the practice of this country, for every person to say his prayers in Latin, whether he knew any thing of that language or not. This conduct, though facred in the eyes of our ancestors, appears ridiculous enough to us; and some parts of ours will seem as strange to posterity. Among these, we may reckon the present mode of medical prescription, which will some time hence appear to have been completely ridiculous, and a very high burlesque upon the common sense of mankind.

But this practice is not only ridiculous; it is likewife dangerous. However capable physicians may be of writing Latin, apothecaries are not always in a condition to read it, and dangerous mistakes, in confequence of this, often happen. But suppose the apothecary ever fo able to read the physician's prescription, he is generally otherwise employed, and the business of making up prescriptions is left entirely to the apprentice. By this means, the greatest man in the kingdom, even when he employs a first-rate physician, in reality trusts his life in the hands of an idle boy, who has not only the chance of being very ignorant, but likewise giddy and careless. Mistakes will sometimes happen in spite of the greatest care; but, where human lives are concerned, all possible methods ought certainly to be taken to prevent them. For this reason, the prescriptions of physicians, instead of being couched in mystical characters, and a foreign language, ought, in my humble opinion, to be conceived in the most plain and obvious terms imaginable.

Diffusing medical knowledge among the people, would not only tend to improve the art, and to banish quackery, but likewise to render medicine more universally useful. However long medicine may have been known as a science, many of its most important purposes to society have either been overlooked, or very little attended to. The cure of diseases is a matter of great importance; but the preservation of health is still greater. This is the concern of every man, and surely what relates to it, ought to be rendered as plain and obvious to all as possible. Men cannot be sufficiently on their guard against diseases, who are totally ignorant of their causes. Nor can the legislature, in whose power it is to do much more for preserving the public health, than can ever be done by the faculty

exert that power with propriety, and to the greatest advantage,

without some degree of medical knowledge.

Indeed, men of every occupation and condition in life, might avail themselves of a degree of medical knowledge; as it would teach them to avoid the dangers peculiar to their respective stations; which is always easier than to remove their effects. Medical knowledge, instead of being a check upon the enjoyments of life, only teaches men how to make the most of them. It has indeed been said, that to live medically, is to live miserably: But it might with equal propriety be said, that to live rationally, is to live miserably. If physicians obtrude their own ridiculous whims upon mankind, or lay down rules inconsistent with reason or common sense, they will be despised. But this is not the fault of medicine. It proposes no rules, but such as are perfectly consistent with the true enjoyment of life, and conducive to the real happiness of mankind.

Medicine has hitherto hardly been confidered as a popular fcience, but as a branch of knowledge folely confined to a particular fet of men, while all the rest have been taught, not only to neglect, but even to dread and despise it. But it will appear, upon a more strict examination, that no science better deserves their attention,

or is more capable of being rendered generally useful.

People are told, that if they dip the least into medical know-ledge, it will render them fanciful, and make them believe they have got every disease of which they read. This, I am satisfied, will seldom be the case with sensible people: and, suppose it were, they must soon be undeceived. A short time will show their error, and a little more reading will infallibly correct it. A single instance will show the absurdity of this notion. A sensible lady, rather than read a medical performance, which would instruct her in the management of her children, must leave them entirely to the care and conduct of the most ignorant, credulous, and stuperstitious part of the human species.

Indeed, no part of medicine is of more general importance than that which relates to the nursing and management of children. Yet sew parents pay a proper attention to it. They leave the sole care of their tender offspring, at the very time when care and attention are most necessary, to hirelings, who are either too eareless to do their duty, or too ignorant to know it. More lives are lost by the carelessiness and inattention of parents and nurses, than are saved by the faculty. The joint and well-conducted endeavours of private persons and the public, for the preservation of infant lives, would be of more advantage to society, than the

whole art of medicine, upon its present footing.

The benefits of medicine, as a trade, will ever be confined to those who are able to pay for them; and of course, the sar greater part of mankind will be every where deprived of them. Physicians, like other people, must live by their employment, and the poor must either want advice altogether, or take up with that

which is worse than none. There are not, however, any where wanting well-disposed people, of better sense, who are willing to fupply the defect of medical advice to the poor, did not their fear of doing ill often suppress their inclination to do good. Such people are often deterred from worthy actions, by the foolish alarms founded in their ears by a fet of men, who, to raife their own importance, magnify the difficulties of doing good, find fault with what is truly commendable, and fleer at every attempt to relieve the fick, which is not conducted by the precise rules of medicine. These gentlemen must, however, excuse me for saying, that I have often known fuch well-disposed persons do much good; and that their practice, which is generally the refult of good fense and observation, assisted by a little medical reading, is frequently more rational, than that of the ignorant retainer to physic, who despises both reason and observation, that he may go wrong by rule; and who, while he is dofing his patient with medicines, often neglects other things of far greater importance.

Many things are necessary for the sick, besides medicine. Nor is the person who takes care to procure those for them, of less importance than a physician. The poor oftner perish in diseases, for want of proper nursing, than of medicine. They are frequently in want of even the necessaries of life, and still more so of what is proper for a sick bed: No one can imagine, who has not been a witness of these situations, how much good a well-disposed person may do, by only taking care to have such wants supplied. There certainly cannot be a more necessary, a more noble, or a more godlike action, than to administer to the wants of our fellow-creatures in

distress.

Perfons who do not chuse to administer medicine to the sick, may nevertheless direct their regimen. An eminent medical author has said, that by diet alone all the intentions of medicine may be answered. No doubt a great many of them may; but there are other things beside diet, which ought by no means to be neglected. Many hurtful and destructive prejudices, with regard to the treatment of the sick, still prevail among the people, which persons of better sense and learning alone can eradicate. To guard the poor against the influence of these prejudices, and to instill into their minds some just ideas of the importance of proper sood, fresh air, cleanliness, and other pieces of regimen necessary in diseases, would be a work of great merit, and productive of many happy consequences. A proper regimen, in most diseases, is at least equal to medicine, and in many of them, it is greatly superior.

To affift the well-meant endeavours of the humane and benevolent in relieving diffres; to eradicate dangerous and hurtful prejudices; to guard the ignorant and credulous against the frauds and impositions of quacks and impostors; and to show men what is in their own power, both with regard to the prevention and cure of diseases, are certainly objects worthy of the physician's attention. These were the leading views in composing and publishing the following sheets. They were suggested by an attention to the conduct of mankind, with regard to medicine, in the course of a pretty long practice in different parts of this island, during which the author has often had occasion to wish that his patients, or those about them, had been possessed of some such plain directory for regulating their conduct. How far he has succeeded in his endeavours to supply this deficiency, must be left for others to determine; but if they be found to contribute, in any measure, towards alleviating the calamities of mankind, he will think his labour very well bestowed.

PART I.

OF THE

General Causes of Diseases.

CHAPTER 1.

OF CHILDREN.

HE better to trace diseases from their original causes, we shall take a view of the common treatment of mankind, in the state of infancy. In this period, the soundations of a good or bad constitution are generally laid; it is therefore of importance, that parents be acquainted with the various causes which may injure the health of their offspring.

It appears from the annual registers of the dead, that almost one half of the children born in Britain, die under twelve years of age. To many, indeed, this may appear a natural evil, but, on due examination, it will be found to be one of our own creating. Were the death of infants a natural evil, other animals would be as liable

to die young, as man; but this we find is not the case.

It may feem strange, that man, notwithstanding his superior reafon, should fall so far short of other animals, in the management of his young: But our surprise will soon cease, if we consider that brutes, guided by instinct, never err in this respect; while man, trusting solely to art, is seldom right. Were a catalogue of those insants, who perish annually by art alone, exhibited to public view, it would astonish most people.

If parents are above taking care of their children, others must be employed for that purpose: These will endeavour to recommend themselves by the appearance of extraordinary skill and address. By this means such a number of unnecessary and destructive articles have been introduced into the diet, clothing, &c. of infants,

that it is no wonder so many perish.

Nothing can be more preposterous than a mother who thinks it beneath her to take care of her own child, or who is so ignorant as not to know what is proper to be done for it. If we search nature throughout, we cannot find a parallel to this. Every other animal is the nurse of its own offspring, and they thrive accordingly. Were

the brutes to bring up their young by proxy, they would thare the

fame fate with those of the human species.

We mean not, however, to impose it as a task upon every mother to suckle her own child. This is in some cases impracticable, and would inevitably prove destructive both to the mother and child. Women of delicate constitutions, subject to hysteric fits, or other nervous affections, make bad nurses: and these complaints are now so common, that it is rare to find a woman of sashion free from them; such women, therefore, supposing them willing, are often unable to suckle their own children.

Almost every mother would be in a condition to give suck, did mankind live agreeably to nature: but whoever considers how far many mothers deviate from her dictates, will not be surprised to find some of them unable to perform that necessary office. Mothers who do not eat a sufficient quantity of solid food, nor enjoy the benefit of free air and exercise, can neither have wholesome juices themselves, nor afford proper nourishment to an infant: Hence children, who are suckled by delicate women, either die young, or

are weak and fickly all their lives.

When we say that mothers are not always in a condition to suckle their own children, we would not be understood as discouraging that practice. Every mother who can, ought certainly to perform so tender and agreeable an office*. But, suppose it to be out of her power, she may, nevertheless, be of great service to her child. The business of nursing, is by no means confined to giving suck. To a woman who abounds with milk, this is the easiest part of it. Numberless other offices are necessary for a child, which the mother ought at least to see done.

A mother who abandons the fruit of her womb, as foon as it is born, to the fole care of an hireling, hardly deferves that name. A child, by being brought up under the mother's eye, not only fecures her affection, but may reap all the advantages of a parent's care, though it be fuckled by another. How can a mother be better employed than in fuperintending the nurfery? This is at once the most delightful and important office; yet the most trivial business or infipid amusements are often preferred to it! A strong proof both

of the bad taste and wrong education of modern semales.

^{*} Many advantages would arise to society, as well as to individuals, from mothers suckling their own children. It would prevent the temptation which poor women are laid under, of abandoning their children, to suckle those of the rich, for the sake of gain: By which means, society loses many of its most useful members, and mothers become in some sense the murderers of their own offspring. I am sure I speak within the truth, when I say, that not one in twenty of those children live, who are thus abandoned by their mothers. For this reason, no mother should be allowed to suckle another's child, till her own is either dead, or sit to be weaned. A regulation of this kind would save many lives among the poorer fort, and could do no hurt to the rich, as most women who make good nurses are able to seekle two children in succession upon the same milk.

It is indeed to be regretted, that more care is not bestowed in teaching the proper management of children to those whom nature has designed for mothers. This, instead of being made the principal, is seldom considered as any part of semale education. Is it any wonder, when semales so educated come to be mothers, that they should be quite ignorant of the duties belonging to that character. However strange it may appear, it is certainly true, that many mothers, and those of fashion too, are as ignorant, when they have brought a child into the world, of what is to be done for it, as the infant itself. Indeed, the most ignorant of the sex are generally reckoned most knowing in the business of nursing. Hence, sensible people become the dupes of ignorance and superstition; and the nursing of children, instead of being conducted by reason, is the result of whim and caprice*.

Were the time that is generally spent by semales, in the acquistion of trisling accomplishments, employed in learning how to bring up their children; how to dress them so, as not to hurt, cramp, or confine their motions; how to feed them with wholesome and nourishing sood; how to exercise their tender bodies, so as best to promote their growth and strength: Were these made the objects of semale instruction, mankind would derive the greatest advantages from it. But while the education of semales, implies little more, than what relates to dress and public show, we have nothing to expect from them, but ignorance, even in the most important concerns.

Did mothers reflect on their own importance, and lay it to heart, they would embrace every opportunity of informing themselves of the duties, which they owe to their infant offspring. It is their province, not only to form the body, but also to give the mind its most early bias. They have it very much in their power, to make men healthy or valetudinary, useful in life, or the pests of society.

But the mother is not the only perfon concerned in the management of children. The father has an equal interest in their welfare, and ought to affist in every thing that respects either the improve-

ment of the body or mind.

It is a pity that the men should be so inattentive to this matter. Their negligence is one reason why semales know so little of it. Women will ever be desirous to excel in such accomplishments as recommend them to the other sex. But men generally keep at such a distance from even the smallest acquaintance with the affairs of the nursery, that many would reckon it an affront, were they sup-

^{*} Tacitus, the celebrated Roman historian, complains greatly of the degeneracy of the Roman ladies in his time, with regard to the care of their offspring. He says, that, in former times, the greatest women in Rome used to account it their chief glory to keep the house and attend their children; but that now the young infant was committed to the sole care of some poor Grecian wench, or other menial servant. We are afraid, wherever luxury and essemble of the sole ground for this complaint.

posed to know any thing of them. Not so, however, with the kennel or the stables: A gentleman of the first rank is not assamed to give directions concerning the management of his dogs or horses, yet would blush, were he surprised in performing the same office for that being, who derived its existence from himself, who is the

heir of his fortunes, and the future hope of his country.

Nor have physicians themselves been sufficiently attentive to the management of children: This has been generally considered as the sole province of old women, while men of the first character in physic, have refused to visit infants, even when sick. Such conduct in the faculty, has not only caused this branch of medicine to be neglected, but has also encouraged the other sex to assume an absolute title to prescribe for children, in the most dangerous diseases. The consequence is, that a physician is seldom called, till the good women have exhausted all their skill; when his attendance can only serve to divide the blame, and appease the disconsolate parents.

Nurses should do all in their power to prevent diseases; but when a child is taken ill, some person of skill ought immediately to be consulted. The diseases of children are generally acute, and the

least delay is dangerous.

Were physicians more attentive to the diseases of infants, they would not only be better qualified to treat them properly when sick, but likewise to give useful directions for their management, when well. The diseases of children are by no means so dissicult to be understood as many imagine. It is true, children cannot tell their complaints; but the causes of them may be pretty certainly discovered, by observing the symptoms, and putting proper questions to the nurses. Besides, the diseases of infants, being less complicated, are easier cured than those of adults*.

Of Diseased Parents.

ONE great fource of the diseases of children is, the unhealthness of parents. It would be as reasonable to expect a rich crop from a barren soil, as that strong and healthy children should be born of parents, whose constitutions have been worn out with intemperance or disease.

Rouffeau observes, that on the constitution of mothers depends originally that of their offspring. No one who believes this, will be surprised, on a view of the semale world, to find diseases and death so frequent among children. A delicate semale, brought up within

^{*} The common opinion, that the diseases of infants are hard to discover, and distinct to cure, has deterred many physicians from paying that attention to them which they deserve—I can, however, from experience, declare, that this opinion is without foundation, and that they are not ther so difficult to discover, nor so ill to cure, as those of adults.

doors, an utter stranger to exercise and open air, who lives on tea and other flops, may bring a child into the world, but it will hardly be fit to live. The first blast of disease will nip the tender plant in the bad: Or, should it struggle through a few years existence, its feeble frame, shaken with convulsions from every trivial cause, will be unable to perform the common functions of life, and prove a

burden to fociety.

If, to the delicacy of mothers, we add the irregular lives of fathers, we shall see further cause to believe, that children are often hurt by the constitution of their parents. A fickly frame may be originally induced by hardships or intemperance, but chiesly by the latter. It is impossible that a course of vice should not spoil the best constitution: and, did the cvil terminate here, it would be a just punishment for the folly of the sufferer; but when once a disease is contracted and rivetted in the habit, it is entailed on posterity. What a dreadful inheritance is the gout, the fcurvy, or the king's evil, to transmit to our offspring! How happy had it been for the heir of many a great estate, had he been born a beggar, rather than to inherit his father's fortunes at the expense of inheriting his discases!

No perfon who labours under any incurable malady ought to marry. He thereby not only shortens his own life, but transmits mifery to others: but when both parties are dccply tainted with the scrophula, the scurvy, or the like, the essects must be still worse. If such have any issue, they must be miserable indeed. Want of attention to these things, in forming connexions for life, has rooted out more families than plague, famine, or the fword; and as long as these connexions are formed from mercenary views, the evil will be continued*.

In our matrimonial contracts, it is amazing fo little regard is had to the health and form of the object. Our sportsmen know, that the generous courfer cannot be bred out of the foundered jade, nor the fagacious spaniel out of the snarling cur. This is fettled upon immutable laws. The man who marries a woman of a fickly constitution, and descended of unhealthy parents, whatever his views may be, cannot be faid to act a prudent part. A diseased woman may prove fertile; should this be the case, the family must become an infirmary: what prospect of happiness the father of fuch a family has, we shall leave any one to judget.

* The Lacedemonians condemned their king Archidanus, for having married a weak, puny woman; because, said they, instead of propagating a race of heroes, you will fill the throne with a progeny of

changelings.

† The Jews, by their laws, were, in certain cases, forbid to have any manner of commerce with the diseased; and indeed to this all wife legislators ought to have a special regard. In some countries, diseased persons have actually been forbid to marry. This is an evil, of a complicated kind, a natural deformity, and political mischief; and therefore requires a public confideration,

Such children as have the misfortune to be born of diseased parents, require to be nursed with greater care than others. This is the only way to make amends for the desects of constitution; and it will often go a great length. A healthy nurse, wholesome air, and sufficient exercise, will do wonders. But when these are neglected, little is to be expected from any other quarter. The

defects of constitution cannot be supplied by medicine.

Those who inherit any family-disease ought to be very circum-spect in their manner of living. They should consider well the nature of such disease, and guard against it by a proper regimen. It is certain, that family diseases, have often, by proper care, been kept off for one generation; and there is reason to believe, that by persisting in the same course, such diseases might at length be wholly eradicated. This is a subject very little regarded, though of the greatest importance. Family-constitutions are as capable of improvement as family-estates; and the libertine, who impares the one, does greater injury to his posterity, than the prodigal, who squanders away the other.

Of the Clothing of Children.

THE clothing of an infant, is fo simple a matter, that it is surprising how any person should err in it; yet many children lose their lives, and others are deformed, by inattention to this article.

Nature knows no use of clothes to an infant but to keep it warm. All that is necessary for this purpose, is to wrap it in a soft loose covering. Were a mother lest to the dictates of nature alone, she would certainly pursue this course. But the business of dressing an infant has long been out of the hands of mothers, and has at last become a secret, which none but adepts pretend to understand.

From the most early ages it has been thought necessary, that a woman in labour, should have some person to attend her. This, in time, became a business; and, as in all others, those who were employed in it, strove to out-do one-another in the different branches of their profession. The dressing of a child came of course to be considered as the midwise's province, who, no doubt imagined, that the more dexterity she could show in this article, the more her skill would be admired. Her attempts were seconded by the vanity of parents, who, too often desirous of making a show of the infant as soon as it was born, were ambitious to have as much sinery heaped upon it as possible. Thus, it came to be thought as necessary for a midwise to excel in bracing and dressing an infant, as for a surgeon to be expert in applying bandages to a broken limb; and the poor child, as soon as it came into the world, had as many rollers and wrappers applied to its body, as if every bone had been fracture

ed in the birth; while these were often so tight, as not only to gall and wound its tender frame, but even to obstruct the motion

of the heart, lungs, and other organs necessary for life.

In most parts of Britain, the practice of rolling children, with fo many bandages, is now, in some measure, laid aside; but it would still be a disficult task to pursuade the generality of mankind, that the shape of an infant does not entirely depend on the midwife. So far, however, are all her endeavours to mend the shape, from being fuccessful, that they constantly operate the contrary way, and mankind become deformed just in proportion to the means used to prevent it. How little deformity of body is to be found among uncivilized nations? So little indeed, that it is vulgarly believed, they put all their deformed children to death. The truth is, they hardly know fuch a thing as a deformed child. Neither should we, if we followed their example. Savage nations never think of manacling their children. They allow them the full use of every organ, carry them abroad in the open air, wash their bodies daily in cold water, &c. By this management, their children become fo strong and hardy, that, by the time our puny infants get out of the nurse's arms, their's are able to shift for themselves*.

Among brute animals, no art is necessary to procure a fine shape. Though many of them are extremely delicate when they come into the world, yet we never find them grow crooked for want of swaddling bands. Is nature less generous to the human kind?

No: but we take the business out of nature's hands.

Not only the analogy of other animals, but the very feelings of infants tell us, they ought to be kept eafy and free from all prefure. They cannot indeed tell their complaints; but they can flow figns of pain; and this they never fail to do, by crying, when hurt by their clothes. No fooner are they freed from their bracings, than they feem pleafed and happy; yet, strange infatuation! the moment they hold their peace, they are again committed to their chains.

If we confider the body of an infant as a bundle of foft pipes, replenished with fluids in continual motion, the danger of prefiure will appear in the strongest light. Nature, in order to make way for the growth of children, has formed their bodies soft and slexible; and lest they should receive any injury from preffure in the womb, has surrounded the fatus every where with sluids. This shows the care which nature takes, to prevent all unequal pressure on the bodies of infants, and to defend them against every thing that might in the least cramp or confine their motions.

Even the bones of an infant are so soft and cartilaginous, that they readily yield to the slightest pressure, and easily assume a bad

^{*} A friend of mine, who was feveral years on the coast of Africa, tells me, that the natives neither put any clothes upon their children, nor apply to their bodies bandages of any kind, but lay them on a pallet, and suffer them to tumble about at pleasure; yet they are all trait, and seldom have any disease.

thape, which can never after be remedied. Hence it is, that for many people appear with high shoulders, crooked spines, and slat breasts, who were as well proportioned at their birth as others, but had the missortune to be squeezed out of shape by the appli-

cation of stays and bandages.

Pressure, by obstructing the circulation, likewise prevents the equal distribution of nourishment to the different parts of the body, by which means the growth becomes unequal. One part grows too large, while another remains too small; and thus in time the whole frame becomes disproportioned and misshapen. To this we must add, that when a child is cramped in its clothes, it naturally shrinks from the part that is hurt; and, by putting its body into unnatural postures, it becomes deformed by habit.

Deformity of body, may indeed proceed from weakness or dieease; but in general, it is the effect of improper clothing. Nine tenths, at least, of the deformity among mankind, must be imputed to this cause. A deformed body is not only disagreeable to the eye, but by a bad figure, both the animal and vital functions must be impeded, and of course health impaired. Hence sew people remark-

ably misshapen are strong or healthy.

The new motions which commence at the birth, as the circulation of the whole mass of blood through the lungs, respiration, the peristaltic motion, &c. assord another strong argument for keeping the body of an infant free from all pressure. These organs not having been accustomed to move, are easily stopped; but when this happens, death must ensue. Hardly any method could be devised more effectually to stop these motions, than bracing the body too tight with roburs* and bandages. Were these to be applied in the same manner to the body of an adult, for an equal length of time, they could hardly sail to hurt the digestion, and make him sick. How much more hurtful they must prove to the tender bodies of infants, we shall leave any one to judge.

Whoever confiders these things, will not be surprised, that so many children die of convulsions soon after the birth. These fits are generally attributed to some inward cause; but in sact, they oftener proceed from our own imprudent conduct. I have known a child seized with convulsion fits soon after the midwise had done swaddling it, who, upon taking off the rollers and bandages, was immediately relieved, and never had the disease afterwards. Numerous examples of this might be given, were they necessary.

It would be fafer to fix on the clothes of an infant with strings than pins, as these often gall and irritate their tender skins, and occasion disorders. Pins have been found sticking above half an inch into the body of a child, after it had died of convulsion sits, which, in all probability, proceeded from that cause.

^{*} This is by no means inveighing against a thing that does not happen. In many parts of Britain, at this day, a roller, eight or ten feet in length, is applied tightly round the child's body as foon as it is born,

Children are not only hurt by the tightness of their clothes, but also by the quantity. Every child has some degree of sever after the birth; and if it be loaded with too many clothes, the sever must be increased. But this is not all; the child is generally laid in bed with the mother, who is often likewise severish; to which we may add the heat of the bed-chamber, the wines, and other heating things, too frequently given to children, immediately after the birth. When all these are combined, which does not seldom happen, they must increase the sever to such a degree, as will endanger the life of the infant.

The danger of keeping infants too hot will further appear, if we confider, that after they have been for sometime in the fituation mentioned above, they are often sent into the country to be nursed in a cold house. Is it any wonder, if a child, from such a transition, catches a mortal cold, or contracts some other satal disease? When an infant is kept too hot, its lungs, not being sufficiently expanded, are apt to remain weak and slaced for life; hence proceed coughs, consumptions, and other diseases of the breast.

It would answer little purpose, to specify the particular pieces of dress, proper for an infant. These will always vary in different countries, according to custom and the humour of parents. The great rule to be observed is, that a child have no more clothes than are necessary to keep it warm, and that they be quite easy for its

body.

Stays are the very bane of infants. A volume would not fuffice to point out all the bad effects of this ridiculous piece of drefs, both on children and adults. The madnefs in favour of ftays, feems however, to be formewhat abated; and it is to be hoped that the world will, in time, become wife enough to know, that the human fhape does not folely depend upon whale-bone and bendleather*.

The clothes of children ought to be kept thoroughly clean. Children perspire more than adults; and if their clothes be not frequently changed, they become very hurtful. Dirty clothes not only fret and gall the tender skins of infants, but likewise occasion ill smells; and what is worse, tend to produce vermin and cutaneous diseases.

Cleanliness is not only agreeable to the eye, but tends greatly to preserve the health of children. It promotes the perspiration, and by that means, frees the body from supersluous humours,

* Stays made of bend-leather, are worn by all the women of lower

station, in many parts of England.

There are still mothers mad enough, to lace their daughters very tight, in order to improve their shape. As reasoning would be totally lost upon such people, I shall beg leave, just to ask them, Why there are ten deformed women for one man? and likewise, to recommend to their perusal, a short moral precept, which forbids us to deform the human body.

which, if retained, could not fail to occasion diseases. No mother or nurse can have any excuse for allowing a child to be dirty. Poverty may oblige her to give it coarse clothes; but if she does not keep them clean, it must be her own fault.

Of the Food of Children.

NATURE not only points out, the proper food for an infant, but actually prepares it. This does not prevent some, who think themselves wifer than nature, from attempting to bring up their children, without her provision. Nothing can show the disposition which mankind have to depart from nature, more, than their endeavouring to bring up children without the breast. The mother's milk, or that of a healthy nurse, is unquestionably the best food for an infant. Neither art nor nature can afford a proper substitute for it. Children may seem to thrive for a few months without the breast; but when teething, the small-pox, and other diseases, incident to childhood, come on, they generally perish.

A child, foon after birth, shows an inclination to suck; and it should be gratified. The mother's milk does not always come immediately after the birth; but this is the way to bring it: Besides, the first milk that the child can squeeze out of the breast, answers the purpose of cleansing, better than all the drugs in the apothecary's shop, and at the same time prevents insammations of the breast,

fevers, and other diseases incident to mothers.

It is strange how people came to think, that the first thing given to a child, should be drugs. This is beginning with medicine by times, and no wonder, if they generally end with it. It sometimes happens, indeed, that the child does not discharge the meconium fo foon as could be wished; this has induced physicians, in such cases, to give something of an opening nature, to cleanse the first passages. Midwives have improved upon this hint, and never fail to give fyrups, oils, &c. whether they be necessary or not. Cramming an infant with such indigestible stuff, as soon as it is born, can hardly fail to make it fick, and is more likely to occasion diseases, than to prevent them. Children are seldom long after the birth without having passage both by stool and urine; though these evacuations may be wanting for some time, without danger. But if children must have something before they be allowed the breast, let it be a little thin water-pap, to which may be added an equal quantity of new milk; or rather water alone, with the addition of a little raw fugar. If this be given without any wines or spiceries, it will neither heat the blood, load the stomach, nor occasion gripes.

Upon the first fight of an infant, almost every person is struck with the idea of its being weak, feeble, and wanting support. This

fuggests the need of cordials. Accordingly, wines are universally mixed with the first food of children. Nothing can be more fallacious than this way of reasoning, or more hurtful to infants than the conduct founded upon it. Children require very little food for some time after the birth; and what they receive should be thin, weak, light, and of a cooling quality. A very small quantity of wine is sufficient to heat and inflame the blood of an infant; but every person conversant in these matters, must know, that most of the diseases of inflants proceed from the heat of their humours.

If the mother or nurse has enough of milk, the child will need little or no other food, before the third or fourth month. It will then be proper to give it, once or twice a day, a little of some food, that is easy of digestion, as water-pap, milk-pottage, weak broth, with bread in it, and such like. This will ease the mother, will accustom the child by degrees to take food, and will render the weaning both less dissibility and less dangerous. All great and sudden transitions are to be avoided in nursing. For this purpose, the food of children ought not only to be simple, but to resemble, as nearly as possible, the properties of milk*. Indeed, milk itself, should make a principal part of their food, not only before they

are weaned, but for a long time after.

Next to milk, we would recommend good light bread. Bread may be given to a child as foon as it shows an inclination to chew; and it may at all times be allowed as much plain bread, as it will eat. The very chewing of bread will promote the cutting of the teeth, and the discharge of faliva, while by mixing with the nurse's milk in the stomach, it will afford an excellent nourishment. Children discover an early inclination to chew whatever is put into their hands. Parents observe the inclination, but generally mistake the object. Instead of giving the child something, which may at once exercise its gums and afford it nourishment, they commonly put into its hands a piece of hard metal, or impenetrable coral. A crust of bread is the best gum-stick. It answers the purpose better than any thing else, and has the additional properties of nourishing the child, and carrying the faliva down to the stomach, which is too valuable a liquor to be lost.

Bread, befides being used dry, may be many ways prepared into food for children. One of the best methods is to boil it in water, afterwards pouring the water off, and mixing with the bread, a proper quantity of new milk unboiled. Milk is both more wholesome and nourishing this way than boiled, and is less apt to occation costiveness. For a child farther advanced, bread may be mixed in yeal or chicken broth, made into puddings, or the like. Bread is a proper food for children at all times, provided it be plain, made,

^{*} A mixture of one-fourth milk, and three-fourths barley-water, with the addition of fone lost fugar, is a good fubfiture for the milk of the mother. (I. C.)

of wholesome grain, and well fermented; but when enriched with fruits, sugars, or such things, it becomes very unwholesome.

It is foon enough to allow children animal food, when they have got teeth to eat it. They should never taste it ill after they are weaned, and even then they ought to use it sparingly. Indeed, when children live wholly on vegetable food, it is apt to sourtheir stomachs; but on the other hand, too much sless the body, and occasions fevers and other inflammatory diseases. This plainly points out a due mixture of animal and vegetable lood, as the most

proper for children.

Few things prove more hurtful to infants, than the common method of fweetening their food. It entices them to take more than they ought to, which makes them grow fat and bloated. It is pretty certain, if the food of children were quite plain, that they would never take more than enough. Their excelles are entirely owing to nurfes. If a child be gorged with food at all hours, and enticed to take it, by making it fweet and agreeable to the palate, is it any wonder, that fuch a child should in time be induced to crave more food than it ought to have?

Children may be hurt by too little as well as too much food*. After a child is weaned, it ought to be fed four or five times a day; but should never be accustomed to eat in the night; neither should it have too much at a time. Children thrive best with small quantities of food frequently given. This neither overloads the stomach, nor hurts the digestion, and is certainly most agreeable to nature.

Writers on nursing have inveighed with such vehemence against giving children too much food, that many parents, by endeavouring to shun that error, have run into the opposite extreme, and ruined the constitutions of their children. But the error of pinching children in their food is more hurtful than the other extreme. Nature has many ways of relieving herself when overcharged; but a child, who is pinched with hunger, will never become a strong or healthy man. That errors are frequently committed on both sides, we are ready to acknowledge; but where one child is hurt by the quantity of its food, ten suffer from the quality. This is the principal evil, and claims our strictest attention.

Many people imagine that the food they themselves love, cannot be bad for their children: but this notion is very absurd. In the more advanced periods of life, we often acquire an inclination for food, which, when children, we could not endure. Besides, many things may by habit, agree very well with the stomach of a grown person, which would be hurtful to a child; as high-seasoned, salted, and smoke-dried provisions, &c. It would also be improper to feed children with sat meat, strong broatlis, rich soups.

or the like.

^{*} They should be indulged in eating, as long as they cat with avidity; but as foon as that has submided, the food should be withdrawn, or the y will be apt to overlead their stomachs. (I. C.)

All strong liquors are hurtful to children. Some parents teach their children to guzzle ale, and other fermented liquors, at every meal. Such a practice cannot fail to do mischief. These children seldom cscape the violence of the small-pox, measles, hooping-cough, or some inslammatory disorder. Milk, water, butter-milk, or whey, are the most proper for children to drink. If they have any thing stronger, it may be sine small beer, or a little wine mixed with water. The stomachs of children can digest well enough, without the assistance of warm stimulants: Besides, being naturally hot, they are easily hurt by every thing of a heating quality.

Few things are more hurtful to children than unripe fruits. They weaken the powers of digeftion, and four and relax the stomach, by which means it becomes a proper nest for insects. Children show a great inclination for fruit, and I believe, that if good ripe fruit were allowed them in proper quantity, it would have no bad effects. We never find a natural inclination wrong, if properly regulated. Fruits are generally of a cooling nature, and correct the heat and acrimony of the humours. This is what most children require; only care should be taken less they exceed. The best way to prevent children from going to excess in the use of fruit, or eating that which is bad, is to allow them a proper quantity of what is good*.

Roots which contain a crude viscid juice should be sparingly given to children. They fill the body with gross humours, and tend to produce cruptive discases. This caution is peculiarly necessary for the poor; glad to obtain at a small price, what will fill the bellies of their children, they stuff them two or three times a day, with greasy potatoes, or other crude vegetables. Children had better eat a smaller quantity of food, which yields a wholesome nourishment, than be crammed with what their digestive powers are

unable properly to assimilate.

Butter ought likewise to be sparingly given to children. It both relaxes the stomach, and produces gross humours. Most things that are sat or oily, have this effect. Butter, when salted, becomes still more hurtful. Instead of butter, so liberally given to children in most parts of Britain, we would recommend honey. Honey is not only wholesome, but cooling, cleansing, and tends to sweeten the humours. Children who eat honey, are seldom troubled with worms: They are also less subject to cutaneous diseases, as itch, scabbed-head, &c.

Many people err, in thinking that the diet of children ought to be altogether moist. When children live entirely upon slops, it re-

^{*} Children are always fickly in the fruit-feafon, which may be thus accounted for: Two-thirds of the fruit which comes to market in this country, is really unripe; and children not being in a condition to judge for themfelves, eat whatever they lay their hands upon, which often proves little better than a poifon for their tender bowels. Servants and others who have the care of children, should be strictly forbid to give them any fruit without the knowledge of their parents.

laxes their folids, renders them weak, and disposes them to the rickets, the scrophula, and other glandular disorders. Relaxation is one of the most general causes of the diseases of children. Every thing therefore which tends to unbrace their solids, ought to be carefully avoided.

We would not be understood by these observations, as confining children to any particular kind of food. Their diet may be frequently varied, provided always, that sufficient regard be had to

fimplicity.

Of the Exercise of Children.

- Carried Contract

OF all the causes which conspire to render the life of man short and miserable, none has greater influence than the want of proper exercise; healthy parents, wholesome food, and proper clothing, will avail little, where exercise is neglected. Sufficient exercise will make up for several desects in nursing; but nothing can supply the want of it. It is absolutely necessary to the health, the

growth, and the strength of children.

The defire of exercise is coeval with life itself. Were this principle attended to, many diseases might be prevented. But, while indolence and sedentary employments prevent two-thirds of mankind from either taking sufficient exercise themselves, or giving it to their children, what have we so expect, but diseases and deformity among their offspring? The rickets, so destructive to children, never appeared in Britain, till manufactures began to flourish, and people, attracted by the love of gain, less the country to follow sedentary employments in great towns. It is amongst these people that this disease chiefly prevails, and not only deforms, but kills many of their offspring.

The conduct of other young animals, shows the propriety of giving exercise to children. Every other animal makes use of its organs of motion as soon as it can, and many of them, even when under no necessity of moving in quest of food, cannot be restrained without force. This is evidently the case with the calf, the lamb, and most other young animals. If these creatures were not permitted to frisk about and take exercise, they would soon die or become diseased. The same inclination appears very early in the human species; but as they are not able to take exercise themselves,

it is the business of their parents and nurses to help them.

Children may be exercised various ways. The best method while they are light, is to carry them about in the nurse's arms*. This gives the nurse an opportunity of talking to the child, and of

^{*} The nurse ought to be careful to keep the child in a proper position; as deformity is often the consequence of inattention to this circumstance.

pointing out every thing, that may please and delight its fancy. Besides, it is much safer than swinging an infant in a machine, or leaving it to the care of such as are not sit to take care of themselves. Nothing can be more absurd than to set one child to keep another: This conduct has proved fatal to many infants, and has rendered others miserable for life.

When children begin to walk, the fafest and best method of leading them about, is by the hands. The common way, of swinging them in leading-strings fixed to their backs, has several bad consequences. It makes them throw their bodies forward, and press with their whole weight upon the stomach and breast; by this means, the breathing is obstructed, the breast slattened, and the bowels compressed; which must hurt the digestion, and occa-

fion confumptions of the lungs and other difeases.

It is a common notion, that if children be fet upon their feet too foon, their legs will become crooked. There is reason to believe, that the very reverse of this is true. Every member acquires strength, in proportion as it is exercised. The limbs of children are weak indeed, but their bodies are proportionally light; and had they skill to direct themselves, they would soon be able to support their own weight. Whoever heard of any other animal that became crooked by using its legs too soon? Indeed, if a child be not permitted to make any use of its legs till a considerable time after the wirth, and be then set upon them with its whole weight at once, theremay be some danger; but this proceeds entirely from the child's not having been accustomed to use its legs from the beginning.

Mothers of the poorer fort think that they are great gainers by making their children lie or fit while they themselves work. In this they are greatly mistaken. By neglecting to give their children exercise, they are obliged to keep them a long-time before they can do any thing for themselves, and to spend more on medi-

cine than would have paid for proper care.

To take care of their children, is the most useful business in which even the poor can be employed: But, alas! it is not always in their power. Poverty often obliges them to neglect their off-fpring, in order to procure the necessaries of life. When this is the case, it becomes the interest as well as the duty of the public to assist them. Ten thousand times more benefit would accrue to the state, by enabling the poor to bring up their own children, than from all the hospitals* that can be erected for that purpose.

^{*} If it were made the interest of the poor to keep their children alive, we should loose very sew of them. A small premium given annually to each poor family, for every child they have alive at the year's end, would save more infant lives, than if the whole revenue of the crowin were expended in hospitals for this purpose. This would make the poor esteem sertility a blessing; whereas many of them think it the greatest curse that can be all them; and in place of wishing their children to live, so far does poverty get the better of natural effection, that they are often very happy when they die.

Whoever considers the structure of the human body, will soon be convinced of the necessity of exercise for the health of children. The body is composed of an infinite number of tubes, whose sluids cannot be pushed on without the action and pressure of the muscles. But if the stuids remain inactive, obstructions must happen, which cannot fail to occasion diseases. Nature has surnished both the vessels which carry the blood and lymph with numerous valves, in order that the action of every muscle might push forward their contents; but without action, this admirable contrivance can have no effect. This part of the animal occonomy proves to a demonstration the necessity of exercise for the preservation of health.

Arguments to show the importance of exercise, might be drawn from every part of the animal economy: Without exercise, the circulation of the blood cannot be properly carried on, nor the different secretions duly performed; without exercise, the sluids cannot be properly prepared, nor the folids rendered strong or firm. The action of the heart, the motion of the lungs, and all the vital functions, are greatly assisted by exercise. But to point out the manner in which these effects are produced, would lead us farther into the economy of the human body, than most of those for whom this treatise is intended would be able to follow. We shall therefore only add, that, where exercise is neglected, none of the animal functions can be duly performed; and when that is the case, the whole constitution must go to wreck.

A good conflitution ought certainly to be our first object in the management of children. It lays a foundation for their being useful and happy in life; and whoever neglects it, not only fails in

his duty to his offspring, but to fociety.

One very common error of parents, by which they hurt the conflitutions of their children, is the fending them too young to fehool. This is often done folely to prevent trouble. When the child is at school, he needs no keeper. Thus, the school-master is made the nurse; and the poor child is fixed to a feat seven or eight hours a day, which time ought to be spent in exercise and diversions. Sitting so long cannot fail to produce the worst effects upon the body; nor is the mind less injured. Early application weakens the faculties, and often fixes in the mind an aversion to books, which continues for life*.

But, suppose this were the way to make children scholars, it certainly ought not to be done at the expense of their constitutions. Our ancestors, who seldom went to school very young, were not less learned than we. But we imagine the boy's education will be

^{*} It is undoubtedly the duty of parents to infiruch their children, at leaft, till they are of an age proper to take care of themselves. This would tend much to consist the cies of parental tenderness and fillal affection, of the want of which, there are at present so many deplorable intrances. Though sew sathers have time to instruct their children, yet most nothers have; and surely, they cannot be better employed.

quite marred, unless he be carried to school in the nurse's arms. No wonder if such hot-bed plants seldom become either scholars or men.

Not only the confinement of children in public schools, but their number, often proves hurtful. Children are much injured by being kept in crowds within doors; their breathing not only renders the place unwholesome, but if any one of them happens to be difeased, the rest catch the infection. A single child has been often known to communicate the bloody-flux, the hooping-cough, the itch, or other diseases, to almost every individual in a numerous school.

But, if infants are to be fent to school, teachers, as they value the interests of society, ought not to confine them too long at a time, but allow them to run about and play at such active diversions as may promote their growth, and strengthen their consitutions. Were boys, instead of being whipped for stealing an hour, to run, ride, swim, or the like, encouraged to employ a proper part of their time in these manly and useful exercises, it would have many excellent effects.

An effeminate education will infallibly spoil the best natural constitution; and if boys are brought up in a more delicate man-

ner than even girls ought to be, they never will be men.

Nor is the common education of girls lefs hurtful to the conflitution than that of boys. Mits is fet down to her frame before fhe can put on her clothes; and is taught to believe, that to excel at the needle is the only thing that can entitle her to general efteem. It is unnecessary here to infift upon the dangerous confequences of obliging girls to fit too much. They are pretty well known, and are too often feit at a certain time of life. But suppose this critical period be got over, greater dangers still await them when they come to be mothers. Women who have been early accustomed to a sedentary life, generally run great hazard in childbed; while those who have been used to romp about, and take sufficient exercise, are seldom in any danger.

One hardly meets with a girl who can at the fame time boafe of early performances by the needle, and a good conflitution. Clofe and early confinement generally occasions indigestions, head-achs, pale-complexions, pain of the stomach, loss of appetite, coughs, confumptions of the lungs, and deformity of the body. The last of these indeed is not to be wondered at, confidering the awkward postures in which girls sit at many kinds of needle-work, and the delicate slexible state of their bodies in the early periods of life.

Would mothers, instead of having their daughters instructed in many trisling accomplishments, employ them in plain work and housewifery, and allow them sufficient exercise in the open air, they would both make them more healthy mothers, and more useful members of society. I am no enemy to genteel accomplishments, but would have them only considered as secondary, and always disregarded, when they impair health.

Many people imagine it a great advantage for children to be early taught to earn their bread. This opinion is certainly right, provided they were so employed as not to hurt their health or growth; but, when these suffer, society, instead of being benefitted, is a real loser by their labour. There are few employments, except sedentary ones, by which children can earn a livelihood; and if they be set to these too soon, it ruins their constitutions. Thus, by gaining a few years from childhood, we generally lose twice as many in the latter period of life, and even render the person less useful while he does live.

In order to be fatisfied of the truth of this observation, we need only look into the great manufacturing towns, where we shall find a puny degenerate race of people, weak and fickly all their lives, seldom exceeding the middle period of life; or if they do, being unfit for business, they become a burden to society. Thus, arts and manufactures, though they may increase the riches of a country, are by no means favourable to the health of its inhabitants. Good policy would therefore require, that such people as labour during life, should not be set too early to work. Every person conversant in the breed of horses, or other working animals, knows, that if they be set to hard labour too soon, they will never turn out to advantage. This is equally true, with respect to the human species.

There are nevertheless, various ways of employing young people without hurting their health. The easier parts of gardening, hufbandry, or any business carried on without doors, are most proper. These are employments which most young people are fond of, and some parts of them may always be adapted to their age, taste, and

strength*.

Such parents as are under the necessity of employing their children within doors, ought to allow them fusicient time for active diversions without. This would both encourage them to do more

work, and prevent their constitutions from being hurt.

Some imagine, that exercife within doors is sufficient; but they are greatly mistaken. One hour spent in running, or any other exercise without doors, is worth ten within. When children cannot go abroad, they may indeed be exercised at home. The best method of doing this, is to make them run about in a long room, or dance. This last kind of exercise, if not carried to excess, is of excellent service to young people. It cheers the spirits, promotes perspiration, strengthens the limbs, &c. 1 knew an eminent physician, who used to say, that he made his children dance, instead of giving them physic. It were well if more people followed his example.

The cold-bath may be confidered as an aid to exercise. By it the body is braced and strengthened, the circulation and secretions

^{*} I have been told that in China, where the police is the best in the world, all the children are employed in the easier part of gardening and bushandry; as weeding, gathering stones of the land, and such like.

this means. When labourers leave off work, which they ought always to do during the heat of the day, they should go home, or, at least, get under some cover, where they may repose themselves in

fafety.

Many people follow their employments in the fields from morning till night, without eating any thing. This cannot fail to hurt their health. However homely their fare be, they ought to have it at regular times; and the harder they work, the more frequently they should eat. If the humours be not frequently replenished with fresh nourishment, they soon become putrid, and produce fevers of the very worst kind.

Many peafants are extremely careless with respect to what they eat or drink, and often, through mere indolence, use unwholesome food, when they might for the same expense have that which is wholesome. In some parts of Britain, the peasants are too careless even to take the trouble of dressing their own victuals. Such people would live upon one meal a-day in indolence, rather than labour, though it were to procure them the greatest affluence.

Fevers of a very bad kind are often occasioned among labourers by poor living. When the body is not sufficiently nourished, the solids become weak; from whence the most statal consequences ensue. Poor living is likewise productive of many of those cutaneous diseases so frequent among the lower class of people. It is remarkable that cattle, when pinched in their food, are generally affected with diseases of the skin, which seldom sail to disappear, when they are put upon a good pasture. This shows how much a good state of the humours depends upon a sufficient quantity of proper nourishment.

Poverty not only occasions, but aggravates, many of the diseases of the laborious. Few of them have much forelight; and, if they had, it is seldom in their power to save any thing. They are glad to make a shift to live from day to day; and, when any disease overtakes them, they are miserable indeed. Here, the godlike virtue of charity ought always to exert itself. To relieve the industrious poor in distress, is surely the most exalted act of religion and humanity. They alone, who are witnesses of those scenes of calamity, can form an opinion of what numbers perish in diseases, for want of proper assistance, and even for want of the necessaries of life.

Labourers are often hurt by an emulation, which prompts them to vie with one another, till they overheat themselves to such a degree as to occasion a fever, or even to drop down dead. Such as wantonly throw away their lives in this manner, deserve to be

looked upon as felf-murderers.

Soldiers fuffer many hardships from the inclemency of seasons, long marches, bad provisions, hunger, watching, unwholesome climates, bad water, &c. These occasion severs, success, rheumatisms, and other satal diseases, which generally do greater execution than the sword, especially when campaigns are continued too late in

the feafon. A few weeks of cold rainy weather will often prove

more fatal than an engagement.

Those who have the command of armies should take care that their soldiers be well clothed and well fed. They ought also to sinish their campaigns in due feason, and to provide their men with dry and well-aired winter quarters. These rules, taking care, at the same time, to keep the sick at a proper distance from those in health, would tend greatly to preserve the lives of the soldiery.

Sailors may be numbered among the laborious. They undergo great hardships from change of climate, the violence of weather, hard labour, bad provisions, &c. Sailors are of so great importance to the trade of a nation, that too much pains can never be bestowed in pointing out the means of preserving their lives.

One great fource of the diseases of sea-faring people is excess. When they get on shore, after having been long at sea, without regard to the climate, or their own constitutions, they plunge headlong into all manner of riot, and often persist till a fever puts an end to their lives. Thus, intemperance, and not the climate, is often the cause why so many of our failors die on foreign coasts. Such people ought not to live too low; but they will find moderation the best defence against severs, and many other maladies.

Sailors, when on duty, cannot avoid fometimes getting wet. When this happens, they should change their clothes as soon as they are relieved, and take every method to restore the perspiration. They should not in this case, make too free with spirits or other strong liquors, but should rather drink them diluted with warm water, and go immediately to bed, where a found sleep and

a gertle fweat would fet all to rights.

But the health of failors fuffers most from unwholesome food. The constant use of falted provisions, with a scant allowance of bad, water debilitate their constitutions, occasions the scurvy, and other obstinate maladies. It is no easy matter to prevent this disease in long voyages; yet much might be done towards effecting so desirable an end, were due pains bestowed for that purpose. For example, various roots, greens, and fruits, might be kept a long time at sea, as onions, potatoes, cabbages, lemons, oranges, tamarinds, apples, &c. When fruits cannot be kept, the juice of them, either fresh or fermented, may. With these, all the drink, and even the food of the ship's company, ought to be acidulated in long voyages.

Stale bread and beer likewise contribute to vitiate the humours. Flour will keep for a long time on board, of which fresh bread might frequently be made. Malt, too, might be kept, and insufed with boiling water at any time. This liquor, when drank even in form of wort, is very wholesome, and is found to be an antidote against the scurvy. Small wines and cyder might likewise be plentifully laid in; and should they turn sour, they would still be useful as vinegar. Vinegar is a great antidote against diseases, and

should be used by all travellers, especially at sea. It may either be mixed with the water they drink, or taken in their food.

Such animals as can be kept alive, ought to be carried on board, as hens, ducks, pigs, &c. Fresh broths made of portable soup, and puddings made of peas, or other vegetables, ought to be used plentifully. Many other things will readily occur to people conversant in these matters, which would tend to preserve the health of that brave and useful set of men*.

We have reason to believe, if due attention were paid to the diet, air, clothing, and above all things, to the cleanliness of seafaring people, they would be the most healthy set of men in the world; but when these are neglected, the very reverse will happen.

The best medical antidote that we can recommend to sailors or soldiers on foreign coasts, especially where dampness prevails, is the Peruvian bark. This will often prevent severs and other satal diseases. About a drachm of it may be chewed every day, or if this should prove disagreeable, an ounce of bark, with half an ounce of orange-peel, and two drachms of snake-root coarsely powdered, may be insufed two or three days in an English quart of brandy, and half a wine-glass of it taken twice or thrice a day, when the stomach is empty. This has been found to be an excellent antidote against fluxes, intermitting, and other severs, in unhealthy climates. It is not material in what form this medicine is taken. It may either be insufed in water, wine, or spirits, as recommended above, or made into an electuary with syrup of lemons, oranges, or the like.

The Sedentary.

- C1 1 BE

THOUGH nothing can be more contrary to the nature of man than a fedentary life, yet this class comprehends by far the greater part of the species. Almost the whole female world, and in manufacturing countries, the major part of the males, may be reckoned fedentary.

* Captain Cook has shown how far, by proper care and attention, the diseases formerly so fatal to seamen, may be prevented. In a voyage of three years and eighteen days, during which he was exposed to every climate, from the 52° north to the 71° of south latitude, of one hundred and eighteen men, composing the ship's company, he lost only one, who died of a phthiss pulmonalis. The principal means he used were, to preserve a strict attention to cleanlines, to procure abundance of vegetables and fresh provisions, especially good water, and to allow his people sufficient time for rest.

+ The appellation of sedentary has generally been given only to the studious; we can see no reason, however, for restricting it to them alone. Many artificers may, with as much propriety, be denominated sedentary as the studious, with this particular disadvantage, that they are often obliged to sit in very awkward postures, which the studious need not un-

less they please,

52 OF THE LABORIOUS, THE SEDENTARY,

Agriculture, the first and most healthful of all employments, is now followed by few who are able to carry on any other business. But those who imagine that the culture of the earth is not sufficient to employ all its inhabitants, are greatly mist ken. An ancient Roman, we are told, could maintain his family from the produce of one acre of ground. So might a modern Briton, if he would be contented to live like a Roman. This shows what an immense increase of inhabitants Britain might admit of, and all of them live by the culture of the ground.

Agriculture is the great fource of domestic riches. Where it is neglected, whatever wealth may be imported from abroad, poverty and misery will abound at home. Such is, and ever will be, the sluctuating state of trade and manufactures, that thousands of people may be in full employment to-day, and in beggary to-morrow. This can never happen to those who cultivate the ground. They can eat the fruit of their labour, and can always by industry ob-

tain, at least, the necessaries of life.

Though fedentary employments are necessary, yet there seems to be no reason why any person should be confined for life to these alone. Were such employments intermixed with the more active and laborious, they would never do hurt. It is constant confinement that ruins the health. A man will not be hurt by sitting five or six hours a-day; but if he is obliged to sit ten or twelve, he will soon become diseased.

But it is not want of exercise alone which hurts sedentary people; they likewise suffer from the confined air which they breathe. It is very common to see ten or a dozen taylors*, or staymakers, for example, crowded into one small apartment, where there is hardly room for one person to breathe freely. In this situation they generally continue for many hours at a time, often with the addition of sundry candles, which tend likewise to waste the air, and render it less sit for respiration. Air that is breathed repeatedly becomes unsit for expanding the lungs. This is one cause of the phthiscal coughs, and other complaints of the breast, so incident to sedentary artificers.

Even the perspiration from a great number of persons pent up together, renders the air unwholesome. The danger from this quarter will be greatly increased, if any one of them happens to have bad lungs, or to be otherwise diseased. Those who sit near him, being forced to breathe the same air, can hardly sail to be insected. It would be a rare thing to sind a dozen sedentary people all in

^{*} A person of observation in that line of life told me, that most taylors die of consumptions; which he attributed chiefly to the unfavourable postures in which they sit, and the unwholesomeness of those places where their business is carried on. If more attention was not paid to profit than to the preservation of human lives, this evil might be easily remedied; but while masters only mind their own interest, nothing will be done for the safety of their servants.

good health. The danger of crouding them together must there-

fore be evident to every one.

Many of those who follow sedentary employments are constantly in a bending posture, as shoe-makers, taylors, cutlers, &c. Such a situation is extremely hurtful. A bending posture obstructs all the vital motions, and of course must destroy the health. Accordingly, we find such artificers generally complaining of indigestions, slatu-

lences, head-achs, pains of the breast, &c.

The aliment in sedentary people, instead of being pushed forwards by an erect posture, and the action of the muscles, is in a manner confined in the bowels. Hence, indigestions, costiveness, wind, &other hypocondriachal affections, are the companions of the sedentary. No excretion can be duly performed where exercise is wanting; and when the matter which ought to be discharged in this way, is retained too long in the body, it must have bad essentially as it is again taken up into the mass of humours.

A bending posture is hurtful to the lungs. When this organ is compressed, the air cannot have free access into all its parts, so as to expand them properly. Hence tubercles, adhesions, &c. are formed, which often end in consumptions. Besides, the proper action of the lungs being absolutely necessary for making good blood, when that organ fails, the humours soon become universally de-

praved, and the whole constitution goes to wreck.

Sedentary artificers are not only hurt by pressure on the bowels, but also on the inferior extremities, which obstructs the circulation in those parcs, and renders them weak and feeble. Thus, taylors, shoe-makers, &c. frequently lose the use of their legs altogether; besides, the blood and humours are, by stagnation, vitiated, and the perspiration is obstructed: From whence proceed the scab, ulcerous fores, soul blotches, and other cutaneous diseases, so common among sedentary artificers.

A bad figure of body is a very common consequence of close application to sedentary employments. The spine, for example, by being continually bent, puts on a crooked shape, and generally remains so ever after. But a bad sigure of body has already been observed to be hurtful to health, as the vital functions are thereby

impeded.

A fedentary life feldom fails to occasion an universal relaxation of the folids. This is the great fource from whence most of the diseases of sedentary people flow. The schrophula, consumption, hysterics, and nervous diseases, now so common, were very little known in this country before sedentary artificers became so numerous: And they are very little known still among such of our people as follow active employments without doors, though in great towns, at least two thirds of the inhabitants are afflicted with them.

It is very difficult to remedy those evils, because many who have been accustomed to a sedentary life, like ricketty children, lose all inclination for exercise; we shall throw out a few hints with respect to the most likely means for preserving the health of this useful set

of people

Sedentary artificers are often hurt by their bending posture. They ought to stand or sit as erect as the nature of their employments will permit. They should change their posture frequently, and never sit too long at a time, but leave off work, and walk, ride, run, or do any thing that will promote the vital functions.

Sedentary artificers are generally allowed too little time for exercife; yet, short as it is, they feldom employ it properly. A journeyman taylor or weaver, for example, instead of walking abroad for exercife and fresh air, at his hours of leisure, chooses often to spend them in a public-house, or in playing at some sedentary game, by which he generally loses both his time and his money.

The awkward postures in which many sedentary artisticers work, seem rather to be the essect of custom than necessity. For example, a table might surely be contrived for ten or a dozen taylors to sit round, with liberty for their legs either to hang down, or rest upon a foot-board, as they should choose. A place might be cut out for each person, in such a manner that he might sit as conveniently for working as in the present mode of sitting cross-legged.

All fedentary artificers ought to pay the most religious regard to cleanliness. Both their situation and occupation render this highly necessary. Nothing would contribute more to preserve their health, than a strict attention to it; and such of them as neglect it, not only run the hazard of losing health, but of becoming a nuisance to their

neighbours.

Sedentary people ought to avoid food that is windy, or hard of digeftion, and pay the strictest regard to sobriety. A person who works hard without doors will soon throw off a debauch; but one who sits has by no means an equal chance. Hence sedentary people are often seized with severs after hard drinking. When such persons feel their spirits low, instead of running to the tavern for relief, they should ride, or walk in the sields. This would remove the complaint more effectually than strong liquor, and would never hurt the constitution.

We shall recommend the following general plan, viz. That every person who follows a sedentary employment should cultivate a piece of ground with his own hands. This he might dig, plant, sow, and weed at leisure hours, so as to make it both an exercise and amusement, while it produced many of the necessaries of life. After working an hour in a garden, a man will return with more keenness to his employment within doors, than if he had been all the while idle.

Labouring the ground is every way conducive to health. It not only gives exercise to every part of the body, but the very smell of the earth and fresh herbs revives and cheers the spirits, whilst the perpetual prospect of something coming to maturity, delights and entertains the mind. We are always pleased with somewhat in pros

pect, however distant or trivial. Hence the happiness that most men feel in planting, sowing, building, &c. These seem to have been the chief employments of the more-early ages: And when kings and conquerors cultivated the ground, there is reason to believe, they knew as well wherein true happiness consisted as we do.

It may feem romantic to recommend gardening to manufacturers in great towns; the plan is very practicable. In Sheffield, where the great iron manufacture is carried on, there is hardly a journey-man cutler who does not possess a piece of ground, which he cultivates as a garden. This practice has many falutary effects. It not only induces these people to take exercise without doors, but also to eat many greens, roots, &c. of their own growth, which they would never think of purchasing. There can be no reason why manufacturers in any other towns of Britain should not follow the same plan. In London, a plan of this kind is not practicable; yet even there, sedentary artificers may find opportunities of taking air and exercise, if they choose to embrace them.

Mechanics are too much inclined to crowd into great towns. The fituation may have fome advantages; but it has many difadvantages. All mechanics who live in the country have it in their power to cultivate a piece of ground; which, indeed, most of them do. This not only gives them exercise, but enables them to live more comfortably. So far at least as my observation extends, mechanics who live in the country are far more happy than those in great towns. They enjoy better health, live in greater assume.

and feldom fail to rear a healthy and numerous offspring.

In a word, exercife without doors, in one shape or another, is absolutely necessary to health. Those who neglect it, though they may for a while drag out life, can hardly be said to enjoy it. Weak and esseminate, they languish for a few years, and soon drop into an untimely grave.

The Studious.

INTENSE thinking is so destructive to health, that sew instances can be produced of studious persons who are strong and healthy. Hard study always implies a sedentary life; and when intense thinking is joined to the want of exercise, the consequence must be bad. We have frequently known even a sew months of close application to study, ruin an excellent constitution, by inducing a train of nervous complaints which could never be removed. Man is evidently not formed for continual thought more than for perpetual action, and would be as soon worn out by the one as by the other.

So great is the power of the mind over the body, that, by its influence the whole vital motions may be accelerated or retarded,

to almost any degree. Thus cheerfulness and mirth quicken the circulation, and promote all the fecretions; fadnefs and profound thought retard them. Hence, even a degree of thoughtlessiies is necessary to health. The perpetual thinker seldom enjoys either health or spirits; while the person who can hardly be said to think

at all, generally enjoys both.

Perpetual thinkers, as they are called, feldom think long. In a few years they generally become quite stupid, and exhibit a melancholy proof how readily the greatest bleffings may be abused. Thinking, like every thing elfc, when carried to an extreme, becomes a vice: nor can any thing afford a greater proof of wifdom, than for a man frequently and feafonably to unbend his mind. This may generally be done by mixing in cheerful company, active diversions, or the like.

Instead of attempting to investigate the nature of that connexion which fublifts between the mind and body, or to enquire into the manner in which they mutually affect each other, we shall only mention those diseases to which the learned are more peculiarly liable, and endeavour to point out the means of avoiding them.

Studious persons are very subject to the gout. This painful disease in a great measure proceeds from indigestion, and an obstructed perspiration. It is impossible that the man who sits from morning till night should either digest his food, or have any of the secretions in due quantity. But when that matter, which should be thrown off by the skin, is retained in the body, and the humours are not duly prepared, diseases must ensue.

The studious are likewife very liable to the stone and gravel. Exercife greatly promotes both the fecretion and discharge of urine; a fedentary life must have the contrary effect. Any one may be fatisfied of this by observing, that he passes much more urine by day than in the night, and also when he walks or rides, than when he

The circulation in the liver being flow, obstructions in that organ can hardly fail to be the consequence of inactivity. Hence, sedentary people are frequently afflicted with schirrous livers. But the proper fecretion and discharge of the bile is so necessary a part of the animal economy, that where these are not duly performed, the health must soon be impaired. Jaundice, indigestion, loss of appetite, and a wasting of the whole body, seldom fail to be the conseguences of a vitiated state of the liver, or obstructions of the bile.

Few difeases prove more fatal to the studious than consumptions of the lungs. This organ cannot be duly expanded in those who do not take proper exercise; and where that is the case, obstructions and adhesions will enfue. Not only want of exercise, but the posture in which studious persons generally sit, is very hurtful to the lungs. Those who read or write much are ready to contract a habit of bending forwards, and often press with their breast upon a table or bench. This posture hurts the lungs,

The functions of the heart may likewise by this means be injured. I remember to have seen a man opened, whose pericardium adhered to the breast-bone, in such a manner, as to obstruct the motion of the heart, and occasion his death. The only probable cause that could be assigned for this singular symptom was, that the man, whose business was writing, used constantly to sit in a bending posture, with his breast pressing upon the edge of a flat table.

No person can enjoy health who does not properly digest his food. But intense thinking and inactivity never fail to weaken the powers of digestion. Hence the solids become weak and relaxed.

and the whole constitution goes to ruin.

Long and intense thinking often occasions grievous head-achs, which bring on vertigoes, apoplexies, palsies, and other fatal disorders. The best way to prevent these is, never to study too long at one time, and to keep the body regular, either by proper food,

or taking frequently a little of some opening medicine.

Those who read or write much are often afflicted with sore eyes. Studying by candle-light is peculiarly hurtful to the fight. This ought to be practised as feldom as possible. When it is unavoidable, the eyes should be shaded, and the head should not be held too low. When the eyes are weak or painful, they should be bathed every night and morning in cold water, to which a little brandy may be added.

The excretions are very defective in the studious. The dropsy is often occeasioned by the retention of those humours which ought to be carried off in this way. Any person may observe, that sitting makes his legs swell, and that this goes off by exercise; which

clearly points out the method of prevention.

Fevers, especially of the nervous kind, are often the effect of study. Nothing affects the nerves so much as intense thought. It in a manner unhinges the whole human frame, and not only hurts the vital motions, but disorders the mind itself. Hence a delirium, melancholy, and even madness, are often the effect of close application to study. There is no disease which can proceed from a defect of the usual secretions, or a debility of the nervous system.

which may not be induced by intense thinking.

But the most afflicting of all the diseases which attack the studious is the hypochondriac. This disease seldom fails to be the companion of deep thought. It may rather be called a complication of maladies than a single one. To what a wretched condition are the best of men often reduced by it! Their strength and appetite fail; a perpetual gloom hangs over their minds; they live in the constant dread of death, and are continually in search of relief from medicine, where it is not to be found. Those who labour under this disorder, though they are often made the subject of ridicule, justly claim our highest sympathy.

Hardly any thing can be more preposterous than for a person to make study his sole business. A mere student is seldom an use-

ful member of fociety. He often neglects the most important duties of life, in order to purfue studies of a very trisling nature. It rarely happens, that any useful invention is the effect of mere Itudy. The farther men dive into profound researches, they generally deviate the more from common fense, and too often lose fight of it altogether. Profound speculations, instead of making men wifer or better, generally render them absolute sceptics, and overwhelm them with doubt and uncertainty. All that is necessary for man to know, in order to be happy, is easily obtained; and the rest, like the forbidden fruit, ferves only to increase his misery.

Studious persons, in order to relieve their minds, must not only discontinue to read and write, but engage in some employment or diversion, that will so far occupy the thought as to make them forget the business of the closet. A folitary ride or walk are so far from relaxing the mind, that they rather encourage thought. Nothing can divert the mind, when it gets into a train of ferious thinking, but attention to subjects of a more trivial nature. These prove a

kind of play to the mind, and confequently relieve it.

Learned men often contract a contempt for what they call trifling company. They are assumed to be seen with any but philosophers. This is no proof of their being fo. No man deferves that name who is ashamed to unbend his mind, by affociating with the cheerful and gay. Even the fociety of children will relieve the mind, and expel the gloom which application to fludy is too apa to occasion.

As studious people are necessarily much within doors, they should make choice of a large and well-aired place for study. This would not only prevent the bad effects which attend confined air, but would cheer the spirits, and have a most happy influence both on the body and mind. It is faid of Euripides, that he used to retire to a dark cave to compose his tragedies, and of Demosthenes, that he chose a place for study where nothing could be either heard or feen. With all deference to fuch venerable names, we cannot help condemning their tafte. A man may furely think to as good purpose in an elegant apartment as in a cave; and may have as happy conceptions where the all-cheering rays of the fun render the air wholesome, as in places where they never enter.

Those who read or write much should be very attentive to their posture. They ought to fit and stand by turns, always keeping as nearly in an erect posture as possible. Those who dictate may do it walking. It has an excellent effect frequently to read or speak aloud. This not only exercises the lungs, but almost the whole body. Hence studious people are greatly benefited by delivering difcourfes in public. Public speakers, indeed, sometimes hurt themfelves by overacting their part; but this is their own fault. The

martyr to mere vociferation merits no fympathy.

The morning has been reckoned the best time for study. It is fo. But it is also the most proper season for exercise, while the stomach is empty, and the spirits refreshed with sleep. Studious people should sometimes spend the morning in walking, riding, or some manly diversions without doors. This would make them return to study with greater alacrity, and would be of more service than twice the time after their spirits are worn out with fatigue. It is not sufficient to take diversion only when we can think no longer. Every studious person should make it a part of his business, and should let nothing interrupt his hours of recreation more than those of study.

Music has a very happy effect in relieving the mind when fatigued with study. It would be well if every studious person were so far acquainted with that science as to amuse himself after severe thought, by playing such airs as have a tendency to raise the spi-

rits, and inspire cheerfulness and good humour.

It is a reproach to learning, that any of her votaries, to relieve the mind after study, should betake themselves to the use of strong liquors. This indeed is a remedy; but it is a desperate one, and always proves destructive. Would such persons, when their spirits are low, get on horseback, and ride ten or a dozen miles, they would find it a more effectual remedy, than any cordial medicine, or strong liquors.

The following is my plan, and I cannot recommend a better to others. When my mind is fatigued with study, or other serious bufiness, I mount my horse, and ride ten or twelve miles into the country, where I spend a day, and sometimes two, with a cheerful friend; after which I never fail to return to town with new vigour,

and to purfue my studies or business with fresh alacrity.

It is to be regretted, that learned men, while in health, pay fo little regard to these things! There is not any thing more common than to see a miserable object over-run with nervous diseases, bathing, walking, riding, and doing every thing for health after it is gone; yet, if any one had recommended these things to him by way of prevention, the advice would, in all probability, have been treated with contempt, or at least, with neglect. Such is the weakness and folly of mankind, and such the want of foresight, even in those who ought to be wifer than others.

With regard to the diet of the studious, we see no reason why they should abstain from any kind of food that is wholesome, provided they use it in moderation. They ought, however, to be sparing in the use of every thing that is sour, windy, rancid, or hard of digestion. Their suppers should always be light, or taken soon in the evening. Their drink may be water, sine malt-liquor, not too strong, good cyder, wine and water, or, if troubled with acidities, water mixed with a little brandy, rum, or any other genuine spirit.

With regard to those kinds of exercise which are most proper for the studious, they should not be too violent, nor carried to excessive satigue. They ought to be frequently varied so as to give action to all the different parts of the body; and should, as often as possible, be taken in the open air. In general, riding on horseback, walking, working in a garden, or playing at some active diversions, are the best.

We recommend the use of the cold-bath to the studious. It will, in some measure, supply the place of exercise, and should not be neglected by persons of a relaxed habit, especially in a warm season.

No person ought either to take violent exercise, or to study im-

mediately after a full meal.

CHAPTER III.

Of Aliment.

TNWHOLESOME food, and irregularities in diet, occasion many diseases. There is no doubt but the whole constitution of body may be changed by diet alone. The solids may be braced or relaxed, have their sensibility, motion, &c. greatly increased or diminished, by different kinds of aliment. A very small attention to these things will be sufficient to show, how much the preservation of health depends upon a proper regimen of the diet.

Nor is an attention to diet necessary for the preservation of health only: it is likewise of importance in the cure of diseases. Every intention in the cure of many diseases, may be answered by diet alone. Its effects, indeed, are not always so quick as those of medicine, but they are generally more lasting: besides, it is neither so disagreeable to the patient, nor so dangerous as medicine, and

is always more easily obtained.

Our intention is not to inquire minutely into the nature and properties of the various kinds of aliment in use among mankind; nor to show their effects upon the different constitutions of the human body; but to mark some of the most pernicious errors which people are apt to fall into, with respect both to the quantity and qualities of their food, and to point out their influence upon health.

It is not easy to ascertain the exact quantity of food proper for every age, sex, and constitution: but a scrupulous nicety here is not necessary. The best rule is to avoid all extremes. Mankind were never intended to weigh and measure their food. Nature teaches every creature when it has enough; and the calls of thirst and hunger are sufficient to inform them when more is necessary.

Though moderation is the chief rule with regard to the quantity, yet the quality of food merits a farther confideration. There are many ways by which provisions may be rendered unwholesome. Bad seasons may either prevent the ripening of grain, or damage it afterwards. These, indeed, are acts of Providence, and we must submit to them; but no punishment can be too severe for those

who fuffer provisions to spoil by hoarding them, on purpose to raise the price, or who promote their own interest by adulterating the necessaries of life*.

Animal, as well as vegetable food, may be rendered unwholefome, by being kept too long. All animal fubstances have a constant tendency to putrefaction; and, when that has proceeded too
far, they not only become offensive to the senses, but hurtful to
health. Diseased animals, and such as die of themselves, ought never to be eaten. It is a common practice in some grazing countries,
for servants and poor people to eat such animals as die of disease,
or are killed by accident. Poverty may oblige people to do this;
but they had better eat a smaller quantity of what is sound and
wholesome: it would both afford a better nourishment, and be attended with less danger.

The injunctions given to the Jews, not to eat any creature which died of itself, seem to have a strict regard to health; and ought to be observed by Christians as well as Jews. Animals never die of themselves without some previous disease; but how a diseased animal should be wholesome food, is inconceivable: even those which die by accident must be hurtful, as their blood is mixed

with the flesh, and soon turns putrid.

Animals which feed grofsly, as tame ducks, hogs, &c. are neither so easily digested, nor afford such wholesome nourishment as others. No animal can be wholesome which does not take sufficient exercise. Most of our stalled cattle are crammed with gross food, but not allowed exercise nor free air, by which means they indeed grow fat, but their juices, not being properly prepared or assimilated, remain crude, and occasion indigestions, gross humours and oppression of the spirits, in those who feed upon them.

Animals are often rendered unwholesome by being over-heated. Excessive heat causes a sever. For this reason, butchers should be severely reprimanded who over-drive their cattle. No person would choose to eat the sless of an animal which had died in a high sever; yet that is the case with all over-drove cattle; and the sever is of-

ten, raised even to the degree of madness.

But this is not the only way by which butchers render meat unwholesome. The abominable custom of filling the cellular membrane of animals with air, in order to make them appear fat, is every day practised. This not only spoils the meat, and renders it unsit for keeping, but is such a dirty trick, that the very idea of it is sufficient to disgust a person of any delicacy at every thing which

^{*} The poor are generally the first who suffer by unsound provisions; but the lives of the labouring poor are of great importance to the state; besides, diseases occasioned by unwholesome food often prove infestious, by which means they reach people in every station. It is therefore the interest of all to take care that no spoilt provisions of any kind be exposed to fale.

comes from the fliambles. Who can bear the thought of eating meat which has been blown up with air from the lungs of a dirty fellow, perhaps labouring under the very worst of diseases?

Butchers have likewise a method of filling the cellular membranes of animals with blood. This makes the meat seem fatter, and likewise weigh more, but it is a very pernicious custom, as it both renders the meat unwholesome and unsit for keeping. I seldom see a piece of meat from the shambles, where the blood is not diffused through the cellular texture. I shall not say that this is always the effect of design; but I am certain it is not the case with animals that are killed for domestic use, and properly blooded. Veal seems to be most frequently spoilt in this way. Perhaps that may in some measure be owing to the practice of carrying calves from a great distance to market, by which means their tender sless bruised, and many of their vessels burst.

No people in the world eat fuch quantities of animal food as the English, which is one reason why they are so generally tainted with the scurvy and its numerous train of consequences, indigestion, low spirits, hypochondriacism, &c. Animal food was surely designed for man, and with a proper mixture of vegetables, it will be found the most wholesome; but to gorge beef, mutton, pork, sish, and sowl, twice or thrice a day, is certainly too much. All who value health ought to be contented with making one meal of sless in twenty-sour hours, and this ought to consist of one kind only.

The most obstinate scurvy has often been cured by a vegetable diet; nay, milk alone will frequently do more in that disease than any medicine. If vegetables and milk were more used in diet, we should have less scurvy, and likewise sewer putrid and inflammatory severs. Fresh vegetables, indeed, come to be daily more used in diet: This laudable practice we hope will continue to gain ground.

Our aliment ought neither to be too moist nor too dry. Moist aliment relaxes the solids, and renders the body seeble. Thus, seemales, who live much on tea, and other watery dict, generally become weak, and unable to digest solid sood: Hence proceed hysterics, and all their consequences. On the other hand, food that is too dry, renders the solids in a manuer rigid, and the humours viscid, which disposes the body to inflammatory severs, scurvies, and the like.

Much has been said on the ill effects of tea in diet. They are, no doubt, numerous; but they proceed rather from the imprudent use of it, than from any bad qualities in the tea itself. Most delicate persons, who are the greatest tea-drinkers, cannot eat any thing in the morning. If such persons, after fasting ten or twelve hours, drink four or five cups of tea, without eating almost any bread, it must hurt them. Good tea, taken in moderate quantity, not too strong, nor too hot, nor drank upon an empty stomach, will seldom do harm; but if it be bad, or substituted in the room of solid sood, it must have many ill effects.

The arts of cookery render many things unwholesome, which are not so in their own nature. By jumbling together a number of different ingredients, in order to make a poignant state or rich soup, the composition proves almost a poison. All high seasoning, pickles, &c. are only incentives to luxury, and hurt the stomach. It were well, if cookery as an art were prohibited. Plain roasting or boiling is all that the stomach requires. These alone are sufficient for people in health, and the sick have still less need of a cook.

The liquid part of our aliment likewise claims our attention. Water is not only the basis of most liquors, but also composes a great part of our solid food. Good water must therefore be of the greatest importance in diet. The best water is that which is most pure, and free from any mixture of foreign bodies. Water takes up parts of most bodies with which it comes into contact; by this means, it is esten impregnated with metals or minerals of a hurtful or poisonous nature. Hence the inhabitants of some hilly countries have peculiar diseases, which in all probability proceed from the water. Thus the people who live near the Alps in Switzerland, and the inhabitants of the Peak of Derby, in England, have large tumours or wens in their necks. This disease is generally imputed to the snow-water; but it is rather owing to the minerals in the mountains through which the waters pass.

When water is impregnated with foreign bodies, it generally appears by its weight, colour, taste, smell, heat, or some other fensible quality. Our business is to choose such water, for common use, as is lightest, and without any particular colour, taste, or smell. In most places of Britain the inhabitants have their choice of water; and sew things would contribute more to health than a due attention to this article. Indolence often induces people to make use of the water that is nearest, without considering its qualities.

Before water be brought into great towns, the strictest attention ought to be paid to its qualities, as many diseases may be occafioned or aggravated by bad water; and when once procured at

a great expense, people are unwilling to give it up.

The common methods of rendering water clear by filtration, or foft, by exposing it to the sun and air, &c. are generally known. We shall only adviseall to avoid waters which stagnate long in small lakes, ponds, or the like; as such waters often become putrid, by the corruption of animal and vegetable bodies with which they abound. Even cattle frequently suffer by drinking, in dry seasons, water which has stood long in small reservoirs, without being supplied by springs or freshened with showers. All wells ought to be kept clean, and to have a free communication with the air.

Fermented liquors, though exclaimed against by many writers, continue to be the common drink of almost every person who can afford them: We shall rather endeavour to assist people in the choice of those liquors, than pretend to condemn what custom has so firmly established. It is not the moderate use of sound fermented

liquors which hurts mankind: It is excefs, and using such as are

ill prepared or vitiated.

Fermented liquors, which are too strong, hurt digestion; and the body is so far from being strengthened by them, that it is weakened and relaxed. Many imagine that hard labour could not be supported without drinking strong liquors: This is a very erroneous notion. Men who never taste strong liquors are not only able to endure more fatigue, but also live much longer, than those who use them daily. But, suppose strong liquors did chable a man to do more work, they must nevertheless waste the powers of life, and occasion premature old age. They keep up a constant sever, which exhausts the system, and disposes the body to numberless diseases.

But fermented liquors may be too weak as well as too strong: when that is the case, they must be either drank new, or they become sour and dead; when such liquors are drank new, the sermentation not being over, they generate air in the bowels, and occasion slatulencies; and, when kept till stale, they sour on the stomach, and hurt digestion. For this reason, all malt-liquors, cider, &c. ought to be of such strength, as to keep till they are ripe, and then they should be used. When such liquors are kept too long, though they should not become sour, yet they generally contract a

hardness, which renders them unwholesome.

All families, who can, ought to prepare their own liquors. Since preparing and vending of liquors became one of the most general branches of business, every method has been tried to adulterate them. The great object both to the makers and venders of liquor is, to render it intoxicating. But it is well known that this may be done by other ingredients than those which ought to be used for making it strong. It would be imprudent even to name those things which are daily made use of to render liquors heady. Suffice it to say, that the practice is very common, and that all the ingredients used for this purpose are of a narcotic or stupesactive quality. But as all opiates are possonous, it is easy to see what must be the consequence of their general use. Though they do not kill suddenly, yet they hurt the nerves, relax and weaken the stomach, and spoil the digestion.

Were fermented liquors faithfully prepared, kept to a proper age, and used in moderation, they would prove real blessings to mankind. But, while they are ill prepared, various ways adulterated, and taken to excess, they must have many pernicious effects.

We recommend it to families, not only to prepare their own liquors, but their bread. Bread is so necessary a part of diet, that too much care cannot be bestowed in order to have it sound and wholesome. For this purpose, it is not only necessary that it be made of good grain, but likewise properly prepared, and kept free from all unwholesome ingredients. This is not always the case with bread prepared by those who make a trade of vending it. Their object is rather to please the eye, than to consult the health.

The best bread is that which is neither too coarse nor too fine, well fermented, and made of wheat slour, or rather of wheat and

rye mixed together.

To specify the different kinds of aliment, to explain their nature and properties, and to point out their effects in different constitutions would far exceed our defign. We shall only mention the following casy rules with respect to the choice of aliment.

Perfons, whose solids are weak and relaxed, ought to avoid all viscid food, or such things as are hard of digestion. Their diet ought to be nourishing, and they should take sufficient exercise in the

open air.

Such as abound with blood should be sparing in every thing that is highly nourishing, as fat meat, rich wines, strong ale, and such like. Their food should consist mostly of bread and other vegetable substances; and their drink ought to be water, whey, or small-beer-

Fat people should not eat freely of oily nourishing diet. They ought frequently to use radish, garlic, spices, or such things as are heating and promote perspiration and urine. Their drink should be water, cossee, tea, or the like; they ought to take much exercise, and little sleep. Those who are too lean must follow an opposite course.

Such as are troubled with acidities, or whose food is apt to sour on the stomach, should live much on animal food; and those afflicted with hot alkaline eructations, ought to use a diet consisting

chiefly of acid vegetables.

People affected with the gout, low spirits, hypochondriac or hysteric disorders, ought to avoid all flatulent food, every thing that is viscid, or hard of digestion, all salted or smoke-dried provisions, and-whatever is austere, acid, or apt to sour on the stomach. Their food should be light, spare, cool, and of an opening nature.

The diet ought to be fuited to the age, conftitution, and manner of life: A fedentary or studious person should live more sparingly than one who labours hard without doors. Many kinds of food will nourish a peasant very well, which would be almost indigestible to a citizen; and the latter will live upon a diet on which the former would starve.

Diet ought not to be too uniform. The constant use of one kind of food might have some bad effects. Nature teaches us this, by the great variety of aliment which she has provided for man, and likewise by giving him an appetite for different kinds of food.

Those who labour under any particular disease, ought to avoid such aliments as have a tendency to increase it: For example, a gouty person should not indulge in rich wines, strong soups or gravies, and should avoid all acids. One who is troubled with the gravel ought to shun all austere and astringent aliments; and those who are scorbutic should be sparing in the use of salted provisions.

In the first period of life, our food ought to be light, nourishing, and frequently taken. Food that is solid, with a sufficient degree

of tenacity, is most proper for the state of manhood. The diet suited to the last period of life, when nature is upon the decline, approaches nearly to that of the sirst. It should be lighter and more succulent than that of vigorous age, and likewise more frequently taken.

It is not only necessary for health that our diet be wholesome, but also that it be taken at regular periods. Some imagine long fasting will atone for excess; but this, instead of mending the matter, generally makes it worse. When the stomach and intestines are over-distended with food, they lose their proper tone, and, by long fasting, they become weak, and instated with wind. Thus, either

gluttony or fasting destroys the powers of digestion.

The frequent repetition of aliment is not only necessary for repairing the continual waste of our bodies, but likewise to keep the study found and sweet. Our humours, even in the most healthy state, have a constant tendency to putrefaction, which can only be prevented by frequent supplies of fresh nourishment: when that is wanting too long, the putrefaction often proceeds so far as to occation very dangerous severs. From hence we may learn the necessity of regular meals. No person can enjoy a good state of health, whose vessels are either frequently overcharged, or the humours long deprived of fresh supplies of chyle.

Long fasting is extremely hurtful to young people; it not only vitiates their humours, but prevents their growth. Nor is it less injurious to the aged. Most persons, in the decline of life, are afflicted with wind: This complaint is not only increased, but rendered dangerous, and often satal, by long sasting. Old people, when their stomachs are empty, are frequently seized with giddiness, headachs, and saintness. These complaints may generally be removed by a piece of bread and a glass of wine, or taking any other solid sood; which plainly points out the method of preventing them.

Many of the sudden deaths, which happen in the advanced periods of life, are occasioned by fasting too long, as it exhausts the spirits, and fills the bowels with wind; we would therefore advise people in the decline of life, never to allow their stomachs to be too long empty. Many people take nothing but a few cups of tea and a little bread, from nine o'clock at night till two or three next afterneon. Such may be said to fast almost three-fourths of their time. This can hardly sail to ruin the apperite, and fill the bowels with wind; all which might be prevented by a folid breakfast.

It is very common to eat a light breakfast and a heavy supper. This custom ought to be reversed. When people supper supper should be very light; but the breakfast ought always to be folid. If any one eats a light supper, goes soon to bed, and rises betimes in the morning, he will be sure to find an appetite for his breakfast, and he may freely indulge it.

The strong and healthy do not suffer so much from fasting as the weak and delicate; but they run great hazard from its opposite,

viz. repletion. Many diseases, especially severs, are the effect of a plethora, or too great fulness of the vessels. Strong people, in high health, have generally a great quantity of blood and other humours. When these are suddenly increased, by an overcharge of rich and nourishing diet, the vessels become too much distended, and obstructions and instammations ensue. Hence so many people are seized with instammatory and eruptive severs after a feast or debauch.

All great and fudden changes in diet are dangerous. What the stomach has been long accustomed to digest, though less whole-fome, will agree better with it than food of a more salutary nature which it has not been used to. When a change becomes necessary, it ought to be made gradually; a sudden transition from a poor and low, to a rich and luxurious diet, or the contrary, might so disturb the functions of the body, as to endanger health, or even to

occasion death itself.

When we recommend regularity in diet, we condemn not every small deviation. It is next to impossible for people at all times to avoid some degree of excess, and living too much by rule might make even the smallest deviation dangerous. It may be prudent to vary a little, sometimes taking more, sometimes less, than the usual quantity of meat and drink, if due regard be had to moderation.

CHAPTER IV.

Of Air.

TNWHOLESOME air is a very common cause of diseases. Few are aware of the danger arising from it. People generally pay some attention to what they eat and drink, but seldom regard what goes into the lungs, though the latter often proves more suddenly satal than the former.

Air, as well as water, takes up parts of most bodies with which it comes into contact, and is often so replenished with those of a noxious quality, as to occasion immediate death. But such violent effects seldom happen, as people are generally on their guard against them. The less perceptible influences of bad air, prove more generally hurtful to mankind; we shall point out some of these, and show from whence the danger chiefly arises.

Air may become noxious many ways. Whatever greatly alters its degree of heat, cold, moisture, &c. renders it unwholesome. Very cold air obstructs the perspiration, constringes the solids, and occasions rheumatisms, coughs, and catarrhs, with other diseases of the throat and breast. Air that is too moist destroys the elasti-

city or fpring of the folids, induces phlegmatic or lax constitutions, and disposes the body to agues; or intermitting fevers, dropsies, &c.

Wherever great numbers of people are crowded into one place, if the air has not a free circulation, it foon becomes unwholesome. Hence it is that delicate persons are so apt to turn sick or faint in crowded churches, assemblies, or any place where the air is in-

jured by breathing, fires, candles, or the like.

In great cities, fo many things tend to contaminate the air, that it is no wonder it proves fo fatal to the inhabitants. The air in cities is not only breathed repeatedly over, but is likewise loaded with sulphur, smoke, and other exhalations, besides the vapours continually arising from innumerable putrid substances, as dunghills, slaughter-houses, &c. All possible care should be taken to keep the streets of large towns open and wide, that the air may have a free current through them. They ought likewise to be kept very clean. Nothing tends more to pollute the air of a city than dirty streets.

It is very common in this country to have church-yards in the middle of populous cities. Whether this be the effect of ancient fuperstition, or owing to the increase of such towns, is a matter of no consequence. Whatever gave rise to the custom, it is a bad one. Habit alone reconciles us to these things; by means of which the most ridiculous, nay, pernicious customs, often become sacred. Thousands of putrid carcasses, so near the surface of the earth, in a place where the air is confined, cannot fail to taint it; and such air, when

breathed into the lungs, must occasion diseases*.

Burying within churches is a practice still more detestable. The air in churches is seldom good, and the effluvia from putrid carcaffes must render it still worse. Churches are commonly old buildings with arched roofs. They are seldom opened above once a week, are never ventilated by fires nor open windows, and rarely kept clean. This occasions that damp, musty, unwholesome smell which one feels upon entering a church, and renders it a very unsafe place for the weak and valetudinary. These inconveniences might, in a great measure, be obviated, by prohibiting all persons from burying within churches, by keeping them clean, and permitting a stream of fresh air to pass frequently through them, by opening opposite doors and windows.

Wherever air stagnates long, it becomes unwholesome. Hence persons confined in jails not only contract malignant severs themselves, but often communicate them to others. Nor are many of the holes, for we cannot call them houses, possessed by the poor in great towns, much better than jails. These low dirty habitations

⁴ In most eastern countries, it was customary to bury the dead at some distance from any town. As this practice obtained among the Jews, the Greeks, and also the Romans, it is strange that the western parts of Europe should not have followed their example in a custom so truly laudable.

are the very lurking-places of bad air and contagious difeases. Such as live in them seldom enjoy good health; and their children commonly die young. In the choice of a house, those who have it in their power ought to pay the greatest attention to open free air.

The various methods which luxury has invented to make houses close and warm, contribute to render them unwholesome. No house can be wholesome unless the air has a free passage through it. For which reason, houses ought daily to be ventilated, by opening opposite windows, and admitting a current of fresh air into every room. Beds, instead of being made up as soon as people rise out of them, ought to be turned down, and exposed to the fresh air from the open windows through the day. This would expel any noxious vapour, and promote the health of the inhabitants.

In hospitals, jails, ships, &c. where that cannot be conveniently done, ventilators should be used. The method of expelling soul, and introducing fresh air, by means of ventilators, is a most salutary invention, and the most useful of all modern medical improvements. It is capable of universal application, and is fraught with numerous advantages, both to those in health and sickness. In all places where numbers of people are crowded together, ventilation

becomes absolutely necessary.

Air which stagnates in mines, wells, cellars, &c. is extremely noxious, and ought to be avoided as the most deadly point. It often kills almost as quickly as lightning. For this reason, people should be very cautious in opening cellars that have been long shut, or going down into deep wells or pits, especially if they have been

kept close covered .

Many people who have splendid houses, choose to sleep in small apartments. This is very imprudent. A bed-chamber ought always to be well aired; as it is generally occupied in the night only, when all doors and windows are shut. If a fire be kept in it, the danger from a small room becomes still greater. Numbers have been stissed when assect by a fire in a small apartment, which is always hurtful.

Those who are obliged, on account of business, to spend the day in close towns, ought, if possible, to sleep in the country. Breathing free air in the night will, in some measure, make up for the want of it through the day. This practice would have a greater effect in preserving the health of citizens than is commonly imagined.

Delicate persons ought, as much as possible, to avoid the air of great towns. It is peculiarly hurtful to the assumatic and consumptive. Such persons should avoid cities as they would the plague.

^{*} We have frequent accounts of persons who lose their lives by going down into deep wells and other places where the air stagnates; all these accidents might be prevented by only letting down a lighted candle be fore them, and stopping when they perceive it go out; yet this simple precaution is seldom used.

The hypochondriac are likewise much hurt by it. Persons, so much afflicted with this malady while in town, that it seemed impossible for them to live, have, upon removing to the country, been immediately relieved. The same observation holds as to nervous and hysteric women. Many people have it not in their power to change their situation in quest of better air. All we can say to such persons is, that they should go as often abroad into the open air as they can, that they should admit fresh air frequently into their houses, and take care to keep them very clean.

It was necessary in former times, for fasety, to surround cities, colleges, and even single houses, with high walls. These, by obstructing the free current of air, render such places damp and unwholesome. Proper attention to air and cleanliness would tend more to preserve the health of mankind, than all the endeavours

of the faculty.

Surrounding houses too closely with planting, or thick woods, likewise tends to render the air unwholesome. Wood not only obstructs the free current of air, but sends forth great quantities of moist exhalations, which render it constantly damp. Wood is very agreeable at a proper distance from a house, but should never be planted too near it, especially in a slat country. Many gentlemen's seats in England are very unwholesome from the great quantity of wood which surrounds them.

Houses situated in low marshy countries, or near large lakes of stagnating water, are likewise unwholesome. Waters which stagnate not only render the air damp, but load it with putrid exhalations, which produce the most dangerous and statal diseases. Those obliged to inhabit marshy countries, ought to make choice of the driest situation they can find, to live generously, and to pay the

ftrictest regard to cleanliness.

If fresh air be necessary for those in health, it is still more so for the sick, who often lose their lives for want of it. The notion that sick people must be kept very hot, is so common, that one can hardly enter the chamber where a patient lies, without being ready to faint, from the hot suffocating smell. How this must affect the sick any one may judge. No medicine is so beneficial to the sick as fresh air. It is the most reviving of all cordials, if administered with prudence. We are not to throw open doors and windows at random upon the sick. Fresh air is to be let into the chamber gradually, and, if possible, by opening the windows of some other apartment.

The air of a fick person's chamber may be greatly freshened, and the patient much revived, by sprinkling the sloor, bed, &c. frequently with vinegar, juice of lemon, or any other strong ve-

getable acid.

Where numbers of fick are crowded into the fame house, or, into the same apartment, the frequent admission of fresh air becomes absolutely necessary. Infirmaries, hospitals, &c. are often

rendered fo obnoxious, for want of proper ventilation, that the fick run more hazard from them than from the difease. This is particularly the case when putrid severs, dysenteries, and other

infectious diseases prevail.

Physicians, surgeons, and others who attend hospitals, ought, for their own safety, to take care that they be properly ventilated. Such persons as are obliged to spend most of their time amought the sick, run great hazard of being themselves insected when the air is bad. All hospitals, and places of reception for the sick, ought to have an open situation, at-some distance from any great town, and patients under an insectious disease ought never to come near the rest.

CHAPTER V.

Of Exercise.

ANY people look upon the necessity man is under of earning his bread by labour, as a curse. But it is evident from the structure of the body, that exercise is not less necessary than food for the preservation of health: those whom poverty obliges to labour for daily bread, are not only the most healthy, but generally the most happy part of mankind. Industry seldom fails to place such above want, and activity serves them instead of physic. This is peculiarly the case with those who live by the culture of the ground. The great increase of inhabitants in infant colonies, and the longevity of such as follow agriculture every where, prove it to be the most healthful as well as the most useful employment.

The love of activity shows itself very early in man. So strong is this principle, that a healthy youth cannot be restrained from exercise, even by the sear of punishment. Our love of motion is a strong proof of its utility. Nature implants no disposition in vain. It seems to be a law throughout the animal creation, that no creature, without exercise, should enjoy health, or be able to find subsistence. Every creature, except man, takes what is necessary. He alone, and such animals as are under his direction, deviate from this original law, and they suffer accordingly.

Inactivity never fails to induce an universal relaxation of the solids, which disposes the body to innumerable diseases. When the solids are relaxed, neither the digestion, nor any of the secretions, can be duly performed. In this case, the worst consequences must ensue. How can persons who loll all the day in easy chairs, and sleep all night on beds of down, fail to be relaxed?

Nor do fuch greatly mend the matter, who never stir abroad but in a coach, sedan, or such like. These elegant pieces of luxury are become so common, that the inhabitants of great towns seem to be in some danger of losing the use of their limbs altogether. It is now below any one to walk, who can afford to be carried. How ridiculous would it seem, to a person unacquainted with modern luxury, to behold the young and healthy swinging along on the shoulders of their fellow-creatures! or to see a fat carcase, overrun with diseases occasioned by inactivity, dragged through the streets by half a dozen horses*!

Glandular obstructions, now so common, generally proceed from inactivity. These are the most obstinate of maladies. So long as the liver, kidnies, and other glands, duly perform their functions, health is seldom impaired; but when they fail, nothing can restore it. Exercise is almost the only cure we know for glandular obstructions; indeed, it does not always succeed as a remedy; but there is reason to believe that it would feldom fail to prevent these complaints, were it used in due time. One thing is certain, that, amongst those who take sufficient exercise, glandular diseases are very little known; whereas the indolent and inactive are feldom free from them.

Weak nerves are the constant companions of inactivity. Nothing but exercise and open air can brace and strengthen the nerves, or prevent the endless train of diseases which proceed from a relaxed state of these organs. We seldom hear the active or laborious complain of nervous diseases; these are reserved for the sons of ease and affluence. Many have been completely cured of these disorders by being reduced from a state of opulence, to labour for their daily bread. This plainly points out the sources from whence nervous diseases slow, and the means by which they may be prevented.

It is absolutely impossible to enjoy health, where the perspiration is not duly carried on; but that can never be the case where exercise is neglected. When the matter which ought to be thrown off by perspiration is retained in the body, it occasions severs, rheumatism, &c. Exercise alone would prevent many of those diseases which cannot be cured, and would remove others where medicine proves inessectual.

Doctor Cheyne fays, that the weak and valetudinary ought to make exercise a part of their religion. We recommend this not

only to the weak and valetudinary, but to all those whose business does not oblige them to take sufficient exercise, as sedentary artifi-

^{*} It is not necessity, but fashion, which makes the use of carriages so common. Many people have not exercise enough to keep their humous from stagnation, who yet dare not venture to make a visit to their next neighbours, but in a coach or sedan, less they should be looked down upon. Strange, that men should be such sools as to be laughed out of the use of their limbs, or to throw away their health, in order to gratify a piece of vanity, or to comply with a ridiculous fashion!

ters*, shop-keepers, studious persons, &c. Such ought to use exercise as regularly as they take food. This might, generally be done without any interruption to business or real loss of time.

No piece of indolence hurts the health more than the modern custom of lying a-bed too long in the morning. This is the general practice in great towns. The inhabitants of cities feldom rife before eight or nine o'clock; but the morning is undoubtedly the best time for exercise, while the stomach is empty, and the body refreshed with sleep. Besides, the morning-air braces and strengthens the nerves, and, in some measure, answers the purpose of a coldbath. Let any one who has been accustomed to lie a-bed till eight or nine o'clock, rise by six or seven, spend a couple of hours in walking, riding, or any active diversion without doors, and he will find his spirits cheerful and serene through the day, his appetite keen, and his body braced and strengthened. Custom soon renders early-rising agreeable, and nothing contributes more to the preservation of health.

The inactive are continually complaining of pains of the stomach, flattlencies, indigestions, &c. These complaints, which pave the way to many others, are not to be removed by medicines. They can only be cured by a vigorous course of exercise,

to which indeed they feldom fail to yield.

Exercise, if possible, ought always to be taken in the open air. When that cannot be done, various methods may be contrived for exercising the body within doors, as the dumb-bell, dancing, swinging, &c. It is not necessary to adhere strictly to any particular kind of exercise. The best way is to take them by turns, and to use that longest which is most suitable to the strength and constitution. Those kinds of exercise which give action to most of the bodily organs, are always to be preferred, as walking, running, riding, fencing, digging, swimming, and such like.

It is much to be regretted, that active and manly diversions are now so little practised. Diversions make people take more exercise than they otherwise would do, and are of the greatest service to such as are not under the necessity of labouring for their

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^{*} Sedentary occupations ought chiefly to be followed by women. They bear confinement much better than men, and are fitter for every kind of bufiness which does not require much strength. It is rediculous enough to see a bufty fellow making pins, needles, or watch wheels, while many of the laborious parts of husbandry are carried on by the other sex. We want men for laborious employments, while one half of the other sex are rendered useless for want of occupations suited to their strength, &c. Were girls bred to mechanical employments, we would not see such numbers profitute themselves for bread, nor find such a want of men for the important purposes of navigation, agriculture, &c. An eminent silk manufacturer told me, that he found women answer better for that business than men; and that he had lately taken a great many girls apprentices as silk weavers. I hope this example will be foldowed by many others.

bread. As active diversions lose ground, those of a sedentary kind seem to prevail. Sedentary diversions are of no other use but to consume time. Instead of relieving the mind, they often require more thought than either study or business. Every thing that induces people to sit still, unless it be some necessary employment, ought to be avoided.

The diversions which afford the best exercise are, hunting, shooting, playing at cricket, hand-ball, &c. These exercise the limbs, promote perspiration, and the other secretions. They likewise strengthen the lungs, and give simmers and agility to the

whole body.

Such as can, ought to fpend two or three hours a-day on horse-back; those who cannot ride, should employ the same time in walking. Exercise should never be continued too long. Over-fatigue prevents the benefit of exercise, and instead of strengthen-

ing the body, tends to weaken it.

Every man should lay himself under some fort of necessity to take exercise. Indolence, like other viecs when indulged, gains ground, and at length becomes agreeable. Hence, many who were sond of exercise in the early part of life, become quite averse from it afterwards. This is the case of most hypochondriae and gouty people, which renders their diseases in a great measure incurable.

In some countries, laws have been made, obliging every man, of whatever rank, to learn some mechanical employment. Whether such laws were designed for the preservation of health, or the encouragement of manufactures, is of no importance. If gentlemen were frequently to amuse and exercise themselves in this way, it might have many good effects. They would at least derive as much honour from a few masterly specimens of their own workmanship, as from the character of having ruined most of their companions by gaming or drinking. Besides, men of leisure, by applying themselves to the mechanical arts, might improve them, to the great benefit of society.

Indolence not only occasions diseases, and renders men useless to society, but promotes all manner of vice. To say a man is idle, is little better than calling him vicious. The mind, it not engaged in some useful pursuit, is constantly in quest of idle pleasures, or impressed with the apprehension of some imaginary evil. From these sources proceed most of the miseries of mankind. Certainly man was never intended to be idle. Inactivity frustrates the very design of his creation; whereas an active life is the best guardian

of virtue, and the greatest preservative of health.

CHAPTER VI.

Of Sleep and Clothing.

sleep weakens the nerves, exhausts the spirits, and occasions diseases; and too much renders the mind dull, the body gross, and disposes to apoplexies, lethargies, and other complaints of a similar nature. A medium ought to be observed; but this is not easy to fix. Children require more sleep than grown persons, the laborious than the idle, and such as eat and drink freely, than those who live absteniously. Besides, the real quantity of sleep cannot be measured by time; as one person will be more refreshed by five

or fix hours of fleep, than another by eight or ten-

Children may always be allowed to take as much sleep as they please; but, for adults, fix or seven hours is certainly sufficient, and no one ought to exceed eight. Those who lie a-bed more than eight hours may slumber, but they can hardly be said to sleep; such generally toss and dream away the fore-part of the night, sink to rest towards morning, and doze till noon. The best way to make sleep sound and refreshing is to rise betimes. The custom of lying a-bed for nine or ten hours, not only makes the sleep less refreshing, but relaxes the solids, and greatly weakens the constitution.

Nature points out night as the proper feason for sleep. Nothing more certainly destroys the constitution than night-watching. It is great pity that a practice so destructive to health should be so much in fashion. How quickly the want of rest in due feason will blast the most blooming complexion, or ruin the best constitution, is evident from the ghastly countenances of those, who, as the phrase is, turn day into night, and night into day.

To make fleep refreshing, the following things are requisite: First, to take sufficient exercise in the open air; to avoid strong tea or coffee; next, to eat a light supper; and lastly, to lie down

with a mind as cheerful and ferene as possible.

It is certain that too much exercife will prevent fleep, as well as too little. We feldom however hear the active and laborious complain of reftlefs nights. It is the indolent and flothful who generally have these complaints. Is it any wonder that a bed of down should not be refreshing to a person who sits all day in an easy chair? A great part of the pleasure of life consists in alternate sest and motion; but they who neglect the latter can never relish the former. The labourer enjoys more true luxury in plain food and sound sleep, than is to be found in sumptuous tables and downy pillows, where exercise is wanting.

That light suppers cause sound sleep, is true even to a proverb. Many persons, if they exceed the least at that meal, are sure to have uneasy nights; and, if they fall asleep, the load and oppression

on their stomach and spirits occasion frightful dreams, broken and disturbed repose, the night-mare, &c. Were the same persons to go to bed with a light supper, or six up till that meal was pretty well digested, they would enjoy sound sleep, and rise resreshed and cheerful. There are indeed some people who cannot sleep unless they have ate some solid sood at night, but this does not imply the necessity of a heavy supper; besides, these are generally persons who have accustomed themselves to this method, and who do not take a sufficient quantity of solid sood and exercise.

Nothing more certainly diffurbs our repose than anxiety. When the mind is not at ease, one seldom enjoys sound sleep. That greatest of human blessings slies the wretched, and visits the happy, the cheerful, and the gay. This is a sufficient reason why every man should endeavour to be as easy in his mind as possible when he goes to rest. Many, by indulging grief and anxious thought, have banished sound sleep so long, that they could never

afterwards enjoy it.

Sleep, when taken in the fore-part of the night, is generally reckoned most refreshing. Whether this be the effect of habit or not, is hard to say; but as most people are accustomed to go early to bed when young, it may be presumed that sleep, at this season, will prove most refreshing to them ever after. Whether the fore-part of the night be best for sleep or not, surely the fore-part of the day is sittest both for business and amusement. I hardly ever knew an early rifer who did not enjoy a good state of health*.

Of Clothing.

THE clothing ought to be fuited to the climate. Custom has a very great influence in this article; but no custom can ever change the nature of things so far, as to render the same clothing sit for an inhabitant of Nova Zembla and Jamaica. It is not necessary to observe an exact proportion betwixt the quantity of clothes we wear, and the degree of latitude which we inhabit; but, at the same time, proper attention ought to be paid it, as well as to the openness of the country, the frequency and violence of storms, &c.

In youth, while the perspiration is free, it is less necessary to cover the body with a great quantity of clothes; but, in the decline of life, when the skin becomes rigid, the clothing should be increased. Many diseases in the latter period of life proceed from a defect of perspiration: these may, in some measure, be prevent-

^{*} Men of every occupation, and in every fituation of life, have lived to a good old age; nay, fome have enjoyed this bleffing whose plan of living was by no means regular: but it consides with observation, that all very old men have been early rifers. This is the only circumstance attending longevity, to which I never knew an exception.

ed by a fuitable addition to the clothing, or by wearing fuch as are better calculated for promoting the discharge from the skin,

as clothes made of cotton, flannel, &c.

The clothing ought to be fuited to the feason of the year. Ciothing may be warm enough for summer, which is not sufficient for winter. The greatest caution is necessary in making these changes. We ought neither to put off our winter clothes too soon, nor to wear our summer ones too long. In this country, the winter often sets in very early with great rigour, and we have frequently cool weather even after the commencement of the summer months. It would likewise be prudent not to make the change all at once, but to do it gradually; and indeed the changes of apparel in this climate ought to be very inconsiderable, especially among those who have passed the meridian of life*.

Clothes often become hurtful by their being made fubservient to the purposes of pride or vanity. Mankind in all ages have considered clothes in this view; their fashion and figure have been continually varying, with very little regard either to health, cli-

mate, or conveniency.

Even the human shape is often attempted to be mended by dress, and those who know no better believe that mankind would be monsters without its affistance. All attempts of this nature are highly pernicious. The most destructive of them in this country is that of squeezing the stomach and bowels into as narrow a compass as possible, to procure, what is falsely called a fine shape. By this practice the action of the stomach and bowels, the motion of the heart and lungs, and almost all the vital functions, are obstructed. Hence proceed indigestions, syncopes, or fainting sits, coughs, consumptions of the lungs, and other complaints so common among females.

The feet likewise often suffer by pressure. How a small foot came to be reckoned genteel, I will not pretend to say; but this notion has made many persons lame. Almost nine-tenths of mankind are troubled with corns: a disease that is seldom or never occasioned but by strait shoes. Corns are not only very trouble-some, but, by rendering people unable to walk, they may likewise be considered as the remote cause of other diseases.

^{*} That colds kill more than plagues, is an old observation; and, with regard to this country, it holds strictly true. Every person of discernment, will perceive, that most of the colds which prove so described tructive to the inhabitants, are owing to their imprudence in changing clothes. A few warm days in March or April induce them to throw off their winter garments, without considering that our most penetrating colds generally happen in May.

[†] We often see persons quite same by the nails of their toes having grown into the sless, and frequently hear of mortifications proceeding from this cause. All these, and many other inconveniencies attending the seet, must be imputed solely to the use of short and strait shoes.

The fize and figure of the shoe ought certainly to be adapted to the foot. In children the fect are as well shaped as the hands, and the motion of the toes as free and easy as that of the singers; yet few persons in the advanced periods of life are able to make any use of their toes. They are generally, by narrow shoes, squeezed all-of-a-heap, and often laid over one-another in such a manner as to be rendered altogether incapable of motion. Nor is the high heel less hurtful than the narrow toe. A lady may seem taller for walking on her tiptoes, but she will never walk well in this manner. It strains her joints, distorts her limbs, makes her stoop, and utterly destroys all her ease and gracefulness of motion: It is entirely owing to shoes with high heels and narrow toes, that not one female in ten can be said to walk well.

In fixing on the clothes, due care should be taken to avoid all tight bandages. Garters, buckles, &c. when drawn too tight, not only prevent the free motion and use of the parts about which they are bound, but likewise obstruct the circulation of the blood, which prevents the equal nourishment and growth of these parts, and occasions various diseases. Tight bandages about the neck, as stocks, eravats, necklaces, &c. are extremely dangerous. They obstruct the blood in its course from the brain, by which means head-achs, vertigos, apoplexies, and other fatal diseases are often occasioned.

The perfection of dress is to be easy and clean. Nothing can be more ridiculous, than for any one to make himself a slave to fine clothes. Such an one, and many such there are, would rather remain as fixt as a statue from morning till night, than discompose a single hair or alter the position of a pin. Were we to recommend any particular pattern for dress, it would be that which is worn by the society of Friends, commonly called Quakers. They are always neat, clean, and often elegant, without any thing superfluous. What others lay out upon tawdry laces, russless and ribbands, they bestow upon superior cleanliness. Finery is only the affectation of dress, and very often covers a great deal of dirt.

Clothing ought not only to be fuited to the climate, the feason of the year, and the period of life; but likewise to the temperature and constitution. Robust persons are able to endure either cold or heat better than the delicate; consequently, may be less attentive to their clothing. But the precise quantity of clothes necessary for any person cannot be determined by reasoning. It is entirely a matter of experience, and every man is the best judge for himself,

what quantity of clothes is necessary to keep him warm*.

^{*} Boerhaave used to say, that no-body suffered by cold, save fools and beggars; the latter not being able to procure clothes, and the former not having sense to wear them. In many cases where the powers of medicine had been tried in vain, I have cured the patient by recommending thick shoes, a stannel waistcoat and drawers, a pair of under stockings, or a stannel petticoat, to be worn during the cold season at least.

CHAPTER VIII.

Of Intemperance.

OUSSEAU observes, that temperance and exercise are the two best physicians. He might have added, that if these were duly regarded, there would be little occasion for any other. Temperance may justly be called the parent of health; yet numbers of mankind act as if they thought diseases and death too slow in their progress, and by intemperance and debauch seem to solicit their

approach.

The danger of intemperance appears from the very construction of the human body. Health depends on that state of the solids and sluids which fits them for the due performance of the vital functions; and while these go regularly on, we are sound and well; but whatever disturbs them, necessarily impairs health. Intemperance never fails to disorder the whole animal economy: It hurts the digestion, relaxes the nerves, renders the different secretions

irregular, and occasions numberless diseases.

The analogy between the nourishment of plants and animals affords a striking proof of the danger of intemperance. Moisture and manure greatly promote vegetation; yet an over-quantity of either will entirely destroy it. The best things become hurtful, nay, destructive, when carried to excess. Hence we learn that the highest degree of human wisdom consists in regulating our appetites and passions so as to avoid all extremes. It is that chiefly which entitles us to the character of rational beings. The slave of appetite is the

difgrace of human nature.

The Author of Nature hath endued us with various passions, for the propagation of the species, the preservation of the individual, &c. Intemperance is the abuse of these passions; and moderation consists in the proper regulation of them. Men, not contented with satisfying the simple calls of Nature, create artificial wants, and are perpetually in search of something that may gratify them; but imaginary wants never can be gratisfied. Nature is content with little; but luxury knows no bounds. Hence the epicure, the drunkard, and the debauchee, seldom stop in their career, till their money or their constitution fails: Then indeed they see their error when too late.

It is impossible to lay down fixt rules with regard to diet, on account of the different constitutions of mankind. The most ignorant person, however, certainly knows what is meant by excess; and

every man, if he chooses, can avoid it.

The great rule of diet is to study simplicity. Nature delights in the most simple food, and every animal, except man, follows her dictates. Man alone riots at large, and ransacks the whole creation in quest of luxuries, to his own destruction. "For my part," says Ad-

dison, "when I behold a fashionable table set out in all its magnificence, I faney that I see gouts and dropsies, severs and lethargies, with other innumerable distempers, lying in ambuscade among the dishes."

Nor is intemperance in other things less destructive than in diet. How quickly does the immoderate pursuit of carnal pleasures, or the abuse of intoxicating liquors, ruin the best constitution! These vices generally go hand in hand. Hence we so often behold the votaries of Bacchus and Venus, even before they have arrived at the prime of life, worn out with diseases, and hasting with swift pace to an untimely grave. Did men resect on the painful diseases, and premature deaths, which are daily occasioned by intemperance, they would shrink back with horror from the indulgence of their darling pleasures.

Intemperance does not hurt its votaries alone: The innocent too often feel the effects of it. How many wretched orphans are to be feen embracing dunghills, whose parents, regardless of the future, spent in riot and debauch what might have served to bring up their offspring in a decent manner? How often do we behold the mother, with her insants, pining in want, while the cruel father is

indulging his infatiate appetites?

Families are not only reduced to mifery, but even extirpated by intemperance. Nothing tends fo much to prevent propagation, and to shorten the lives of children, as the intemperance of parents. The poor man who labours all day, and at night lies down contented with his humble fare, can boast a numerous offspring, while his pampered lord, sunk in ease and luxury, often languishes without an heir to his ample fortunes. Even states and empires feel the insluence of intemperance, and rife or fall as it prevails.

Instead of mentioning the different kinds of intemperance, and pointing out their influence upon health, we shall only, by way of example, make a few observations on one particular species of that

vice, viz. the abuse of intoxicating liquors.

Every act of intoxication puts Nature to the expense of a fever, in order to discharge the poisonous draught. When this is repeated almost every day, it is easy to foresee the consequences. That constitution must be strong indeed, which is able long to hold out under a daily fever! but severs occasioned by drinking do not always go off in a day: They frequently end in an inflammation of the breast, liver, or brain, and produce fatal effects.

Though the drunkard should not fall by an acute disease, he seldom escapes those of a chronic kind. Intoxicating liquors, when used to excess, weaken the bowels and spoil the digestion; they destroy the power of the nerves, and occasion paralytic and convulsive disorders. Hence obstructions, atrophies, dropsies, and consumptions of the lungs. These are the common ways in which drunkards make their exit. Diseases of this kind, when brought on by hard drinking, seldom admit of a cure.

Many people injure their health by drinking, who feldom get drunk. The habit of foaking, though its effects be not so violent, is not less pernicious. When the vessels are kept constantly full and upon the stretch, the different digestions can neither be duly performed, nor the humours properly prepared. Hence, most people of this character are afflicted with the gout, the gravel, ulcerous fores in the legs, &c. If these disorders do not appear, they are seized with low spirits, hypochondriacal affections, and other symptoms of indigestion.

Confumptions are now so common, that it is thought one-tenth of the inhabitants of great towns die of that disease. Hard drinking is no doubt one of the causes to which we must impute the increase of consumptions. The great quantities of viscid malt liquor drank by the common people of England, cannot fail to render the blood sizy and unsit for circulation; from whence proceed obstructions, and inflammations of the lungs. There are few great ale-drinkers who are not phthisical: nor is that to be wondered at, considering

the glutinous and almost indigestible nature of strong ale.

Those who drink ardent spirits or strong wines run still greater hazard; these liquors heat and inslame the blood, and tear the tender vessels of the lungs to pieces; yet so great is the consumption of them in this country, that one would almost be induced to

think the inhabitants lived upon them*.

The habit of drinking proceeds frequently from misfortunes in life. The miserable fly to it for relief. It affords them indeed a temporary ease. But, this solace is short-lived; and when it is over, the spirits sink as much below their usual tone as they had before been raised above it. Hence, a repetition of the dose becomes necessary, and every fresh dose makes way for another, till the unhappy wretch becomes a slave to the bottle, and at length falls a facrifice to what at first perhaps was taken only as a medicine. No man is so dejected as the drunkard when his debauch is gone off. Those who have the greatest flow of spirits while the glass circulates freely, are of all others the most melancholy when sober, and often put an end to their existence in a fit of spleen or ill humour.

Drunkenness not only proves destructive to heal th, but likewise to the faculties of the mind. It is strange that creatures who value themselves on a superior degree of reason to that of brutes, should take pleasure in sinking so far below them. Were such as voluntarily deprive themselves of the use of reason, to continue ever

^{*} We may form some notion of the immense quantity of ardent spirits consumed in Britain from this circumstance, that in the city of Edinaburgh and its environs, besides the great quantity of foreign spirits duly entered, and the still greater quantity which is supposed to be smuggled, it is computed that above two thousand private stills are constantly employed in preparing a poisonous liquor called molasses. The common people have got so universally into the habit of drinking this base spirit, that when a porter or labourer is seen reeling along the streets, they say, he has got molassed.

after in that condition, it would feem but a just punishment. Though this be not the consequence of one act of intoxication, it feldom fails to succeed a courte of it. By a habit of drinking, the

greatest genius is often reduced to a mere idiot *.

Intoxication is peculiarly hurtful to young perfons. It heats their blood, impairs their strength, and obstructs their growth; besides, the frequent use of strong liquors in the early part of life destroys any benefit that might arise from them asterwards. Those who make a practice of drinking generous liquors when young, cannot expect to reap any benefit from them as a cordial in the decline of life.

Drunkenness is not only in itself a most abominable vice, but is an inducement to many others. There is hardly any crime so horrid that the drunkard will not perpetrate for the love of liquor. We have known mothers sell their children's clothes, the food that they should have ate, and afterwards even the infants themselves, in order to purchase the draught.

CHAPTER VIII.

Of Gleanliness.

HE want of cleanliness admits of no excuse. Where water can be had for nothing, every person can be clean. The continual discharge from our bodies by perspiration, renders frequent change of apparel necessary. Changing apparel greatly promotes the secretion from the skin, so necessary for health. When that matter which ought to be carried off by perspiration, is either retained in the body, or resorbed from dirty clothes, it must occasion diseases.

Diferies of the skin are chiefly owing to want of cleanliness. They may indeed be caught by infection, or brought on by poor

* It is amazing that improvements in arts, learning, and politeness, have not put the barbarons custom of drinking to excess out of fashion. It is indeed less common in South Britain than it was formerly; but it fill prevails very much in the North, where this relic of barbarity is mistaken for hospitality. There no man is supposed to entertain his guests well, who does not make them drunk. Forcing people to drink, is certainly the greatest piece of rudeness that any man can be guilty of. Manliness, complaisance, or mere good-nature may induce a man to take his glass, if urged to it, at a time when he might as well take poison. The custom of drinking to excess has long been out of fashion in France; and, as it begins to lose ground among the politer part of the English, we hope it will soon be banished from every part of this island.

† Mr. Pot, in his furgical observations, mentions a disease which he calls the chimney-sweepers cancer, as it is almost peculiar to that unhappy set of people. This he attributes to negled of cleanlines, and with great justice. I am convinced, if that part of the body which is the seat of this cruel disease was kept clean by frequent washing, it would never happen.

living, unwholesome food, &e. but they will seldom continue long where cleanliness prevails. To the same eause must we impute the various kinds of vermin which insest the human body, houses, &e. These may always be banished by cleanliness alone, and wherever

they abound, we have reason to believe it is neglected.

One common cause of putrid and malignant severs is the want of cleanlines. These severs commonly begin among the inhabitants of close dirty houses, who breathe unwholesome air, take little exercise, and wear dirty clothes. There the insection is generally hatched, which often spreads far and wide, to the destruction of many. Hence cleanlines may be considered as an object of public attention. It is not sufficient that I be clean myself, while the want of it in my neighbour affects my health as well as his own. If dirty people cannot be removed as a common nuisance, they ought at least to be avoided as insectious. All who regard their health should keep at a distance even from their habitations.

In places where great numbers of people are collected, cleanlines becomes of the greatest importance. It is well known that infectious diseases are communicated by tainted air. Every thing, therefore, which tends to pollute the air, or spread the infection, ought with the utmost eare to be guarded against. For this reason, in great towns, no slith of any kind, should be permitted to lie upon the streets. Nothing is more apt to convey infection than the

exerements of the diseased.

In many great towns the streets are little better than dunghills, being frequently covered with ashes, dung, and nastiness of every kind. Even slaughter-houses, or killing-shambles are often to be seen in the very centre of great towns. The putrid blood, excrements, &c. with which these places are generally covered, cannot fail to taint the air, and render it unwholesome. How easily might this be prevented by active magistrates, who have it always in their power to make proper laws relative to things of this nature,

and to enforce the observance of them !

We are forry, that the importance of general cleanliness, does not seem to be sufficiently understood by the magistrates of most great towns in Britain; though health, pleasure, and delicacy, all conspire to recommend an attention to it. Nothing can be more agreeable to the sense, more to the honour of the inhabitants, or more conducive to their health, than a clean town; nor can any thing impress a stranger with a more disrespectful idea of any people, than its opposite. Whatever pretensions people may make to learning, politeness, or civilization, while they neglect cleanliness, they are in a state of barbarity*.

^{*} In ancient Rome the greatest men did not think cleanliness an object unworthy of their attention. Pliny says, the Cloace, or common sewers, for the conveyance of filth and nashiness from the city, were the greatest of all the public works; and bestows higher encomiums upon Tarquinius, Agrippa, and others who made and improved them, than on those who atchieved the greatest conquests.

The peafants in most countries hold cleanliness in contempt. Were it not for the open fituation of their houses, they would often feel the bad effects of this disposition. One seldom sees a farm-house without a dunghill before the door, and frequently the cattle and their masters lodge under the same roof. Peasants are likewise extremely careless with respect to change of apparel, keeping their houses, &c. clean. This is merely the effect of indolence and a dirty disposition. Habit may indeed render it less disagreeable to them, but no habit can ever make it falutary to wear dirty. clothes or breathe unwholesome air.

In camps, the strictest regard should be paid to cleanliness. By negligence in this matter, infectious diseases are often spread amongst a whole army; and frequently more die of these, than by the fword. The Jews during their encampments in the wilderness, received particular instructions with respect to cleanliness*. The rules enjoined them ought to be observed by all in the like situation. Indeed, the whole system of laws delivered to that people, has a manifest tendency to promote cleanliness. Whoever confiders the nature of their climate, the difeases to which they were liable, and their dirty disposition, will see the propriety of fuch laws.

In most eastern countries, cleanliness makes a great part of their religion. The Mahometan, as well as the Jewish religion, enjoins various bathings, washings, and purifications. These might be defigned to represent inward purity; but they were at the same time calculated for the preservation of health. However whimsical these washings may appear to some, few things would tend more to prevent diseases than a proper attention to many of them. Were every person, for example, after visiting the sick, handling a dead body, or touching any thing that might convey infection, to wash before he went into company, or fat down to meat, he would run less hazard either of catching the infection himself, or of communicating it to others.

Frequent washing not only removes the filth and fordes which adhere to the skin, but likewise promotes the perspiration, braces the body, and enlivens the spirits. How refreshed, how cheerful, and agreeable does one feel on being shaved, washed, and shifted; especially when these offices have been neglected longer than usual!

The eastern custom of washing the feet, though less necessary in this country, is a very agreeable piece of cleanliness, and contributes greatly to the preservation of health. The sweat and dirt with which these parts are frequently covered, cannot fail to obftruct the perspiration. This piece of cleanliness would often pre-

^{* &}quot;Thou shalt have a place also without the camp, whither thou shalt go forth abroad; and thou shalt have a paddle upon thy weapon: and it shall be when thou shalt ease thyself abroad, thou shalt dig therewith, and shalt turn back, and cover that which cometh from thee, &c."Deut. chap. xxiii. ver. 12, 13.

vent colds and fevers. Were people careful to bathe their feet and legs in lukewarm water at night, after being exposed to cold or wet through the day, they would feldom experience the ill effects which often proceed from these causes.

A proper attention to cleanliness is no where more necessary than on shipboard. If epidemical distempers break out there, no one can be safe. The best way to prevent them, is to take care that the whole company be cleanly in their clothes, bedding, &c. When infectious diseases do break out, cleanliness is the most likely means to prevent their spreading and to prevent their returning afterwards, or being conveyed to other places. For this purpose, the clothes, bedding, &c. of the sick ought to be carefully washed, and sumigated with brimstone. Insection will lodge a long time in dirty clothes, and afterwards break out in the most terrible manner.

In places where great numbers of fick people are collected together, cleanliness ought to be most religiously observed. The very smell in such places is often sufficient to make one sick. It is easy to imagine what effect that is likely to have upon the diseased. In an hospital or, infirmary, where cleanliness is neglected, a person in persect health has a greater chance to become sick, than

a fick person has to get well.

Few things are more unaccountable than that neglect, or rather dread of cleanliness, which appears among those who have the care of the fick; they think it almost criminal to suffer any thing that is clean to come near a person in a sever, for example, and would rather allow him to wallow in all manner of filth, than change the least bit of his linen. If cleanliness be necessary for persons in health, it is certainly more so for the sick. Many diseases may be cured by cleanliness alone; most of them might be mitigated by it; and, where it is neglected, the slightest disorders are often changed into the most malignant. The same mistaken care which prompted people to prevent the least admission of fresh air to the sick, seems to have induced them to keep them dirty. Both these destructive prejudices will, we hope, be soon entirely eradicated.

Cleanliness is agreeable to our nature. We cannot help approving it in others, even though we practise it not ourselves. It sooner attracts our regard than even finery itself, and often gains esteem where that fails. It is an ornament to the highest as well as the lowest station, and cannot be dispensed with in either. Few virtues are of more importance to society than general cleanliness. It ought to be carefully cultivated every where; but in populous cities, it should be almost revered*.

^{*} As it is impossible to be throughly clean without a sufficient quantity of water, the magistrates of great towns should be particularly attentive to this article. Most great towns in Britain are so situated as to be easily supplied with water; and those persons who will not make

CHAPTER IX.

Of Infection.

ANY diseases are insectious. Every person ought, therefore, as far as he can, to avoid all communication with the diseased. The common practice of visiting the sick, though often well meant, has many ill consequences. We cannot help blaming such as endanger their own or their neighbours' lives by a mistaken

friendshp or an importinent curiosity.

The houses of the fick, especially in the country, are generally crowded from morning tilt night with idle visitors. It is customary, in such places, for servants and young people to wait upon the fick by turns, and even to sit up with them all night. It would be a miracle indeed should such always escape. Experience teaches us the danger of this conduct. People often catch fevers in this way, and communicate them to others, till at length they become epidemic.

It would be thought highly improper, for one who had not had the finall-pox, to wait upon a patient in that difease; yet many other fevers are almost as infectious as the small-pox, and not less fatal. Some imagine that severs prove more fatal in villages than in great towns, for want of proper medical affistance. This may sometimes be the case; but we think it oftener proceeds from

the cause above-mentioned.

Were a plan to be laid down for communicating infection, it could not be done more effectually than by the common method of vifiting the fick. Such vifitors not only endanger themselves and their connections, but likewise hurt the fick. By crowding the house, they render the air unwholesome, and by their private whispers and dismal countenances disturb the imagination of the patient, and depress his spirits. Persons who are ill, especially in severs, ought to be kept as quiet as possible. The sight of strange faces, and every thing that disturbs the mind, hurts them.

The common practice in country places of inviting great numbers of people to funerals, and crowding them into the same apartment where the corpse lies, is another way of spreading infection. The infection does not always die with the patient. Every thing that comes into contact with his body while alive, receives the contagion, and some of them, as clothes, blankets, &c. will retain it for a long time. Persons who die of insectious disorders,

a proper use of it, after it is brought to their hand, deserve to be punished. The streets of great towns, where water can be had, ought to be washed every day. This is the only essectual method for keeping them thoroughly clean; and upon trial, we are persuaded it will be found the cheapest.

ought not to lie long unburied; and people should keep as much

as possible at a distance from them.

It would tend greatly to prevent the fpreading of infectious difeases, if those in health were kept at a proper distance from the sick. The Jewish legislator, among many other wise institutions for preserving health, has been peculiarly attentive to the means of preventing insection, or defilement as it is called, either from a diseased person or a dead body. In many cases the diseased were to be separated from those in health; and it was deemed a crime even to approach their habitations. If a person only touched a diseased or dead body, he was appointed to wash himself in water, and to keep for some time at a distance from society.

Infectious diseases are often communicated by clothes. It is extremely dangerous to wear apparel which has been worn by the deceased, unless it has been well washed and fumigated, as infection may lodge a long time in it, and afterwards produce very tragical effects. This shows the danger of buying at random the

clothes which have been worn by other people.

Infectious disorders are frequently imported. Commerce, together with the riches of foreign climes, brings their discases. These do often more than counterbalance all the advantages of that trade by means of which they are introduced. It is to be regretted, that so little care is commonly bestowed, either to prevent the introduction or spreading of insectious maladies. Some attention indeed is generally paid to the plague; but other discases pass unregarded*.

Infection is often spread through cities, by jails, hospitals, &c. These are frequently situated in the very middle of populous towns; and when infectious diseases break out in them, it is impossible for the inhabitants to escape. Did magistrates pay any regard to the

health of the people, this evil might be easily remedicd.

Many are the causes which tend to diffuse infection through populous cities. The whole atmosphere of a large town is one contaminated mass, abounding with various kinds of infection, and must be pernicious to health. Such as are obliged to live in large cities, ought to choose an open situation; to avoid narrow, dirty,

^{*} Were the tenth part of the care taken to prevent the importation of difeases, that there is to prevent sinugaling, it would be attended with many happy consequences. This might easily be done by appointing a physician at every considerable sea-port, to inspect the ship's company, passengers, &c. before they came alhore, and, if any fever or other infectious disorder prevailed, to order the ship to perform a short quarantine, and to send the sick to some hospital or proper place to be cured. He might likewise order all the clothes, bedding, &c. which had been used by the sick during the voyage, to be either destroyed, or thoroughly cleansed by sumigation, &c. before any of it were sent ashore. A scheme of this kind, if properly conducted, would prevent many severs, and other infectious diseases, from being brought by failors into sea-port towns, and by this means diffused all over the country.

crowded streets; to keep their own houses and offices clean; and to be as much abroad in the open air as their time will permit.

It would tend greatly to prevent the spreading of infectious diseases, were proper nurses every-where employed to take care of the fick. This might often save a family, or even a whole town, from being infected by one person. Not that people should abandon their friends or relations in distress, but only be on their guard against being too much in company with those who are afflicted

with diseases of an infectious nature.

Such as wait upon the sick in infectious diseases run very great hazard. They should stuff their noses with tobacco, or some other strong smelling herb, as rue, tansy, or the like. They ought likewise to keep the patient very clean, to sprinkle the room where he lies with vinegar, or other strong acids, frequently to admit a stream of fresh air into it, and to avoid the smell of his breath as much as they can. They ought never to go into company without having changed their clothes and washed their hands; otherwise, if the disease be infectious, they will in all probability carry the contagion along with them*.

A due attention to those things which tend to diffuse infection would be of great importance in preventing diseases. As most diseases are in some degree infectious, no one should continue long with the fick, except the necessary attendants. I mean not however, by this caution, to deter those whose duty or office leads them to wait upon the fick, from such a laudable and necessary employ-

ment.

Many things are in the power of the magistrate which would tend to prevent the spreading of infection; as the promoting of public cleanliness; removing jails, hospitals, burying grounds, and other places where infection may be generated, at a proper distance from great towns; widening the streets; pulling down useless walls, and taking all methods to promote a free circulation of air through every part of the town, &c. Public hospitals, or proper places of reception for the sick, provided they were kept elean, well ventilated, and placed in an open situation, would likewise tend to prevent the spreading of infection. Such places of

† The ancients would not suffer even the temples of their gods where

she fick reforted, to be built within the walls of a city.

^{*} There is reason to believe that infection is often conveyed from one place to another by the carelesshess of the faculty themselves. Many physicians affect a familiar way of sitting upon the patient's bedside, and holding his arm for a considerable time. If the patient has the simall-pox, or any other infections disease, there is no doubt but the doctor's hands, clothes, &c. will carry away some of the infection; and, if he goes directly to visit another patient without washing his hands, changing his clothes, or being exposed to the open air, which is not seldom the case, is it any wonder that he should carry the disease along with him? Physicians not only endanger others, but also themselves, by this practice. And indeed they sometimes suffer for their want of care.

teception would prevent the poor, when fick, from being visited by their idle or officious neighbours. They would likewise render it unnecessary for fick servants to be kept in their masters houses. Masters had better pay for having their servants taken care of in an hospital, than run the hazard of having an insectious disease diffused among a numerous samily. Sick servants and poor people, when placed in hospitals, are not only less apt to dissufe insection among their neighbours, but have likewise the advantage of

being well attended. We are not, however, to learn that hospitals, instead of preventing infection, may become the means of diffusing it. When they are placed in the middle of great towns; when numbers of patients are crowded together into fmall apartments; when there is a constant communication kept up between the citizens and the patients; and when cleanliness and ventilation are neglected, they become nests for hatching diseases, and every one who goes into them, not only runs a risk of receiving infection himself, but likewife of communicating it to others. This is not the fault of hofpitals, but of those who have the management of them. It were to be wished, that they were both more numerous, and upon a more respectable footing, as that would induce people to go into them with less reluctance. This is the more to be defired, because most of the putrid fevers and other infectious disorders break out among the poor, and are by them communicated to the better fort. Were proper attention paid to the first appearances of such disorders, and the patients early conveyed to an hospital, we should feldom scena putrid fever, which is almost as insectious as the plague, become epidemic.

CHAPTER X.

Of the Passions.

of diseases. How the mind affects the body, will, in all probability ever remain a secret. It is sufficient for us to know, that there is established reciprocal influence between the mental and corporal parts, and that whatever injures the one, disorders the other-

Of Anger.

THE passion of anger rustles the mind, distorts the countenance, hurries on the circulation of the blood, and disorders the whole vital and animal functions. It often occasions fevers, and other acute diseases; and sometimes even sudden death. This passion

is peculiarly hurtful to the delicate, and those or weak nerves. Such persons frequently lose their lives by a violent six of anger, and I would advise them to guard against the excess of this passion with the utmost care.

It is not indeed always in our power to prevent being angry; but we may furely avoid harbouring refentment in our breaft. Refentment preys upon the mind, and occasions the most obstinate chronical disorders which gradually waste the constitution. Nothing shows true greatness of mind more than to forgive injuries; it promotes the peace of society, and greatly conduces to our own case, health, and selicity.

Such as value health should avoid violent gusts of anger, as they would the most deadly poison. Neither ought they to indulge refertment, but to endeavour at all times to keep their minds calm and serene. Nothing tends so much to the health of the body as a

constant tranquillity of mind.

Of Fear.

THE influence of fear, both in occasioning and aggravating diseases, is very great. No man ought to be blamed for a decent concern about life; but too great a desire to preserve it is often the cause of losing it. Fear and anxiety, by depressing the spirits, not only dispose us to diseases, but often render those diseases satal which an undaunted mind would overcome.

Sudden fear has generally violent effects. Epileptic fits, and other convultive diforders, are often occasioned by it. Hence the danger of that practice, so common among young people, of frightening one another. Many have lost their lives, and others have been rendered miserable, by frolics of this kind. It is dangerous to tamper with the human passions. The mind may easily be thrown into such disorder as never again to act with regularity.

But the gradual effects of fear prove more hurtful. The conftant dread of some future evil, by dwelling upon the mind, often occasions the very evil itself. Hence it comes to pass, that so many die of those very diseases of which they long had a dread, or which had been impressed on their minds by some accident, or soolish prediction. This, for example, is often the case with women in child-bed. Many of those who die in that situation are impressed with the notion of their death a long time before it happens; and there is reason to believe that this impression is often the cause of it.

The methods taken to impress the minds of women with apprehensions of the great pain and peril of child-birth, are very hurtful. Few women die in labour, though many lose their lives after it; which may be thus accounted for. A woman after deli-

very, finding herself weak and exhausted, immediately apprehends the is in danger; but this fear seldom fails to obstruct the necessary evacuations, upon which her recovery depends. Thus, the sex often fall a facrifice to their own imaginations, when there would

be no danger, did they apprehend none.

It feldom happens that two or three women in a great town die in child-bed, but their death is followed by many others. Every woman of their acquaintance who is with child dreads the fame fate, and the disease becomes epidemical by the mere force of imagination. This should induce pregnant women to despise fear, and by all means to avoid those tattling gossips who are continually buzzing in their ears the misfortunes of others. Every thing that may in the least alarm a pregnant or child-bed woman, ought with the greatest care to be guarded against.

Many women have lost their lives in child-bed by the old superstitious custom, still kept up in most parts of Britain, of tolling the parish bell for every person who dies. People who think themselves in danger are very inquisitive; and if they come to know that the bell tolls for one who died in the same situation with themselves, what must be the consequence? At any rate they are apt to suppose that this is the case, and it will often be found a dis-

ficult matter to persuade them of the contrary.

But this custom is not pernicious to child bed women only. It is hurtful in many other cases. When low severs, in which it is dissicult to support the patient's spirits, prevail, what must be the effect of a funeral peal sounding sive or six times a day in his ears? No doubt his imagination will suggest that others died of the disease under which he labours. This apprehension will have a greater tendency to depress his spirits, than all the cordials of medicine will have to raise them.

If we have not sense enough to abolish this useless piece of ceremony, we ought to keep the sick as much from hearing it as possible, and from every other thing that may tend to alarm them. So far however is this from being generally attended to, that many make it their business to visit the sick, on purpose to whisper dismal stories in their ears. Such may pass for sympathizing friends, but they are their enemies. All who wish well to the sick ought to keep

fuch persons at the greatest distance from them.

A custom has long prevailed among physicians, of prognosticating, or foretelling the issue of the disease. Vanity introduced this practice, and still supports it, in spite of common sense and the safety of mankind. I have known a physician barbarous enough to boast, that he pronounced more sentences than all his Majesty's judges. Would to God that such sentences were not often equally satal! It may indeed be alleged, that the doctor does not declare his opinion before the patient. So much the worse. A sense ble patient had better hear what the doctor says, than learn it from the disconsolate looks, the watery eyes, and the broken whispers

of those about him. It feldem happens, when the doctor gives an unfavourable opinion, that it can be concealed from the patient. The very embarrassment which the friends and attendants show in disguising what he has faid, is generally sufficient to discover the truth.

Heaven has concealed from mortals their fate; and we do not fee what right any man has to announce the death of another, especially if such a declaration has a chance to kill him. Mankind are indeed very fond of prying into future events, and feldom fail to folicit the physician for his opinion. A doubtful answer, or one that may tend rather to encourage the hopes of the fick, is surely the most fase. This conduct could neither hurt the patient nor the physician. Nothing tends more to destroy the credit of physic than those bold prognosticators, who by the bye, are generally the most ignorant of the faculty. The mistakes which daily happen in this way are so many standing proofs of human vanity, and the weakness of science.

There are cases where the physician ought to give intimation of the patient's danger to some of his near connections; though even this ought always to be done with the greatest caution; but it rever can be necessary in any case that the whole town and country should know, immediately after the doctor has made his first visit, that he has no hopes of his patient's recovery. Persons whose impertinent curiosity leads them to question the physician with regard

to the fate of his patient, deferve no answer.

The vanity of forctelling the fate of the fick is not peculiar to the faculty. Others follow their example, and those who think themselves wifer than their neighbours often do much hurt in this way. Humanity surely calls upon every one to comfort the fick, and not to add to their affliction by alarming their sears. A friend, or even a physician, may often do more good by a mild and sympathizing behaviour than by medicine, and should never neglect to administer that greatest of all cordials, Hope.

Of Grief.

GRIEF is the most destructive of all the passions. Its effects are permanent, and when it sinks deep into the mind, it generally proves statal. Anger and fear, being of a more violent nature, seldom last long; but grief often changes into a fixed melancholy, which preys upon the spirits, and wastes the constitution. This passion ought not to be indulged. It may generally be conquered at the beginning; but when it has gained strength, all attempts to remove it are vain.

No person can prevent missortunes in life; but it shows true greatness of mind to bear them with screnity. Many persons make

a merit of indulging grief, and when misfortunes happen, they obstinately refuse all consolation, till the mind, overwhelmed with melancholy, sinks under the load. Such conduct is not only destructive to health, but inconsistent with reason, religion, and common sense.

Change of ideas is as necessary for health as change of posture. When the mind dwells long upon one subject, especially of a disagreeable nature, it hurts the whole sunctions of the body. Grief included spoils the digestion and destroys the appetite; hence the spirits are depressed, the nerves relaxed, the bowels instated with wind, and the humours, for want of fresh supplies of chyle, vitiated. Many an excellent constitution has been ruined by a family-

misfortune, or any thing that occasions excessive grief.

It is utterly impossible, that any person of a dejected mind should enjoy health. Life may indeed be dragged out for a few years: but whoever would live to a good old age, must be good-humoured and cheerful. This indeed is not altogether in our own power; yet our temper of mind, as well as our actions, depends greatly upon ourselves. We can either associate with cheerful or melancholy companions, mingle in the amusements and offices of life, or sit still and broad over our calamities as we choose. I hese, and many such things, are certainly in our power, and from these the mind generally takes its cast.

The variety of feenes which prefent themselves to the senses, were certainly designed to prevent our attention from being too long fixed upon any one object. Nature abounds with variety, and the mind, unless fixed down by habit, delights in contemplating new objects. This at once points out the method of relieving the mind in distress. Turn the attention frequently to new objects. Examine them for some time. When the mind begins to recoil, shift the scene. By this means, a constant succession of new ideas may be kept up, till the disagreeable ones entirely disappear. Thus travelling, the study of any art or science, reading or writing on such subjects as deeply engage the attention, will sooner expel grief than the most sprightly amusements.

As the body cannot be healthly unless it be exercised; neither can the mind. Indolence nourishes grief. When the mind has nothing else to think of but calamities, no wonder that it dwells there. Few people who pursue business with attention are hurt by grief. Instead therefore of abstracting ourselves from the world or business, when misfortunes happen, we ought to engage in it with more than usual attention, to discharge with double diligence the functions of our station, and to mix with friends of a cheerful

and focial temper.

Innocent amusements are not to be neglected. These, by leading the mind insensibly to the contemplation of agreeable objects, help to dispel the gloom which missortunes cast over it. They make time seem less tedicus, and have many other happy effects.

Some persons, when overwhelmed with grief, betake themselves to drinking. This is making the cure worse than the disease. It seldom fails to end in the ruin of fortune, character, and constitution.

Of Love.

LOVE is perhaps the strongest of all the passions; at least, when it becomes violent, it is less subject to the controul either of the understanding or will, than any of the rest. Fear, anger, and several other passions are necessary for the preservation of the individual, but love is necessary for the continuation of the species itself: It was therefore proper that this passion should be deeply rooted in the human breast.

Though love be a ftrong passion, it is seldom so rapid in its progress as several of the others. Few persons fall desperately in love all-at-once. We would therefore advise every one, before he tampers with this passion, to consider well the probability of his being able to obtain the object of his love. When that is not likely, he should avoid every occasion of increasing it. He ought immediately to fly the company of the beloved object; to apply his mind attentively to business or study; to take every kind of amusement; and above all, to endeavour, if possible, to find another object which may engage his affections, and which it may be in his power to obtain.

There is no passion with which people is so ready to tamper as love, although none is more dangerous. Some men make love for amusement, others from mere vanity, or on purpose to show their consequence with the fair. This is perhaps the greatest piece of cruelty, which any one can be guilty of. What we easerly wish for we easily credit. Hence, the too credulous fair are often betrayed into a situation wich is truly deplorable, before they are able to discover that the pretended lover was only in jest. But there is no jesting with this passion. When love has got to a certain height, it admits of no other cure but the possession of its object, which in this case ought always if possible to be obtained*.

^{*} The conduct of parents with regard to the disposal of their children in marriage is often very blameable. An advantageous match is the constant aim of parents; while their children often suffer a real martyrdom betwixt their inclinations and duty. The first thing which parents ought to consult in disposing of their children in marriage, is certainly their inclinations. Were due regard always paid to these, there would be fewer unhappy couples, and parents would not have so often cause to repent the severity of their conduct, after a ruined constitution, a lost character, or a distracted mind, has shown them their mistake.

Of Religious Melancholy.

MANY persons of a religious turn of mind behave as if they thought it a crime to be cheerful. They imagine the whole of religion consists in certain mortifications, or denying themselves the smallest indulgence, even of the most innocent amusements. A perpetual gloom hangs over their countenances, while the deepest melancholy preys upon their minds. At length the fairest prospects vanish, every thing puts on a dismal appearance, and those very objects which ought to give delight, afford nothing but disgust. Life itself becomes a burden, and the unhappy wretch, persuaded that no evil can equal what he feels, often puts an end to his own existence.

Perfons whose business it is to recommend religion to others, should beware of dwelling too much on gloomy subjects. That peace and tranquillity of mind, which true religion is calculated to inspire, is a more powerful argument in its favour, than all the terrors that can be uttered. Terror may indeed deter men from outward acts of wickedness, but can never inspire them with that love of God, and real goodness of heart, in which alone true religion consists.

The best way to counteract the violence of any passion, is to keep the mind closely engaged in some useful pursuit.

CHAPTER XI.

Of the Common Evacuations.

HE principal evacuations from the human body are those by stool, urine and insensible perspiration. None of these can be long obstructed without impairing health. When that which ought to be thrown out of the body is too long retained, it occasions a plethora, or too great fulness of the vessels.

Of the Evacuation by Stool.

FEW things conduce more to health than keeping the body regular. When the forces lie too long in the bowels, they vitiate the humours; and when they are too foon discharged, the body is not sufficiently nourished. A medium is to be desired, which can only be obtained by regularity in diet, sleep and exercise. Whenever the body is not regular, there is reason to suspect a fault in one or other of these.

Persons who eat and drink at irregular hours, and who eat vari-

ous kinds of food, and drink of feveral different liquors at every meal, have no reason to expect either that their digestion will be good, or their discharges regular. Irregularity in eating and drinking, disturbs every part of the animal economy, and never fails to occasion diseases. Either too much or too little food will have this effect. The former indeed generally occasions looseness, and the latter costiveness; but both have a tendency to hurt the health.

It would be difficult to afcertain the exact number of stools which may be confishent with health, as these differ in the different periods of life, in different constitutions, and even in the same constitution under a different regimen of diet, exercise, &c. It is however generally allowed, that one stool a-day is sufficient for an adult, and that less is hurtful. But this, like most general rules, admits of many exceptions. I have known persons in perfect health who did not go to stool above once a-week. Such a degree of costiveness is not safe; though the person who labours under it may for some time enjoy tolerable health, yet at length it may occasion diseases.

One method of procuring a stool every day is to rise betimes, and go abroad in the open air. Not only the posture in bed is unfavourable to regular stools, but also the warmth. This, by promoting the perspiration, lessens all the other discharges.

The method recommended for this purpose by Mr. Locke, is likewise very proper, viz. to solicit Nature, by going regularly to stool, every morning whether one has a call or not. Habits of this kind may be acquired, which will in time become natural.

Perfo.! who have frequent recourse to medicines for preventing costiveness, seldom fail to ruin their constitutions. Purging medicines frequently repeated, weaken the bowels, hurt the digestion, and every dose makes way for another, till at length they become as necessary as daily bread. Those who are troubled with costiveness, ought rather, if possible, to remove it by diet than drugs. They should go thinly clothed, and avoid every thing of an astringent or heating nature. The diet and other regimen necessary in this case, will be found under the article Costiveness, where this state of the bowels is treated as a disease.

Such persons as are troubled with a habitual looseness ought likewise to suit their diet to the nature of their complaint. They should use food which braces and strengthens the bowels, and which is rather of an astringent quality, as wheat-bread made of the finest flour, cheese, eggs, rice boiled in milk, &c. Their drink should be red-port, claret, brandy and water, in which toasted bread has been boiled, and such like.

As an habitual loofeness is often owing to an obstructed perspiration, persons affected with it ought to keep their seet warm, to wear slannel next their skin, and take every other method to promote the perspiration. Further directions, with regard to the treatment of this complaint, will be found under the article Loofeness.

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Of Urine.

ances of the urine, that it is very difficult to lay down any determined rules for judging of either. Dr. Cheyne fays, the urine ought to be equal to three-fourths of the liquid part of our aliment. But fuppose any one were to take the trouble of measuring both, he would find, that every thing which altered the degree of perspiration, would alter this proportion, and likewise, that different kinds of aliment would afford very different quantities of urine. For these, and other reasons, no rule can be given for judging of the precise quantity of urine which ought to be discharged, yet a person of common sense will seldom be at a loss to know when it is in either extreme.

As a free discharge of urine not only prevents, but actually cures, many diseases, it ought, by all means, to be promoted; and every thing that may obstruct it should be carefully avoided. Both the secretion and discharge of urine are lessened by a sedentary life, sleeping on beds that are too soft and warm, food of a dry and heating quality, liquors which are astringent and heating, as redport, claret, and such like. Those who suspect that their urine is in too small quantity, or who have any symptoms of the gravel, ought to avoid these things, and whatever else has a tendency to lessen the quantity of their urine.

When the urine is too long retained, it is not only re-abforbed or taken up again into the mass of sluids, but, by stagnating in the bladder, it becomes thicker, the more watry parts slying off first, and the more gross and earthy remaining behind. By the constant tendency which these have to concrete, the formation of stones and gravel in the bladder is promoted. Hence, indolent and sedentary people are much more liable to these diseases, than

persons of a more active life.

* It has long been an observation among physicians, that the appearances of the urine are very uncertain, and very little to be depended on. No one will be surprised at this, who considers how many ways it may be affected, and consequently have its appearance altered. The passions, the state of the atmosphere, the quantity and quality of the food, the exercise, the clothing, the slate of the other evacuations, and numberless other causes, are sufficient to induce a change either in the quantity or appearance of the urine. Any one who attends to this, will be associated at the impudence of those daring quacks, who pretend to find out diseases, and prescribe to patients from the bare inspection of their urine. These imposlors, however, are very common all over Britain, and by the amazing credulity of the populace, many of them amass considerable fortunes. Of all the medical prejudices which prevail in this country, that in favour of urine-doctors is the strongest. The common people have still an unlimited faith in their skill, although it has been demonstrated that no one of them is able to distinguish the urine of a horse, or any other animal, from that of a man.

Many perfons have loft their lives, and others have brought on very tedious, and even incurable diforders, by retaining their urine too long, from a false delicacy. When the bladder has been over-diffended, it often loofes its power of action altogether, or becomes paralytic, and is rendered unable either to retain the urine, or expel it properly. The calls of nature ought never to be post-poned. Delicacy is a virtue; but that can never be reckened true delicacy, which induces any one to risk his health or hazard his life.

Urine may be in too great as well as too small a quantity, by drinking large quantities of weak watery liquors, by the excessive use of alkaline salts, or any thing that stimulates the kidnies, dilutes the blood, &c. This disorder very soon weakens the body, and induces a consumption. It is disorder to cure, but may be mitigated by strengthening diet and astringent medicines, such are recommended under the article Diabetes.

Of the Perspiration.

INSENSIBLE perspiration is generally reckoned the greatest of all the discharges from the human body. It is of so great importance to health, that few discases attack us while it goes properly on; but when it is obstructed, the whole frame is soon disordered. This discharge, however, being less perceptible than any of the rest, is consequently less attended to. Hence, acute severs, rheumatisms, agues, &c. often proceed from obstructed perspiration

before we are aware of its having taken place.

On examining patients, we find most of them impute their diseases either to violent colds which they had caught, or to slight ones which had been neglected. For this reason, instead of a critical inquiry into the nature of the perspiration, its difference in different seasons, climates, constitutions, &c. we shall endeavour to point out the causes which most commonly obstruct it, and to show how far they may be either avoided, or have their influence counteracted by timely care. The want of a due attention to their, costs Britain annually some thousands of useful lives.

Changes in the Atmosphere.

ONE of the most common causes of obstructed perspiration, or catching cold, in this country, is the changeableness of the weather, or state of the atmosphere. There is no place where such changes happen more frequently than in Britain. With us, the degrees of heat and cold are not only very different in the differ-

ent seasons of the year, but often change almost from one extreme to another in a few days, and sometimes even in the course of one day. That such changes must assect the state of the perspiration

is obvious to every one*.

The best method of sortistying the body against the changes of the weather, is to be abroad every day. Those who keep mest within doors are most liable to catch cold. Such persons generally tender themselves so delicate as to seel even the slightest changes in the atmosphere, and by their pains, coughs, and oppressions of the breast, free they become a kind of living barometers.

Wet Clothes.

WET clothes not only by their coldness obstruct the perspiration, but their moisture, by being absorbed, or taken up into the body, greatly increases the danger. The most robust constitution is not proof against the stanger arising from wet clothes; they daily occasion fevers, rheumatisms, and other fatal disorders, even in the

young and healty.

It is impossible for people who go frequently abroad, to avoid fometimes being wet. But the danger might generally be lessened, if not wholly prevented, by changing their clothes soon; when this cannot be done, they should keep in motion till they be dry. So far are many from taking this precaution, that they often sit or lie down in the fields with their clothes wet, and frequently sleep even whole nights in this condition. The frequent instances which we have of the satal effects of this conduct, ought to deter others from being guilty of it.

Wet Feet.

EVEN wet feet often occasion fatal diseases. The cholic, inflammations of the breast and of the bowels, the iliac passion, cholera morbus, &c. are often occasioned by wet feet. Habit will render this less dangerous; but it ought, as far as possible, to be avoided. The delicate, and those who are not accustomed to have their clothes or feet wet, should be peculiarly careful in this respect.

^{*} I never knew a more remarkable instance of the uncertainty of the weather in this country, than hoppened while I was writing these notes. This morning, August 14, 1783, the thermometer in the shade was down at fifty-three degrees, and a very few days ago it shows eighty. No one who reflects on such great and student changes in the atmosphere, will be surprised, to sind colds, coughs, rheums, with other affections of the breast and bowels, so common in this country.

Night Air.

THE perspiration is often obstructed by night-air; even in summer, this ought to be avoided. The dews which fall plentifully after the hottest day, make the night more dangerous than when the weather is cool. Hence, in warm countries, the evening-dews are

more hurtful than where the climate is more temperate.

It is very agreeable after a warm day, to be abroad in the cool evening; but this is a pleafure to be avoided by all who value their health. The effects of evening-dews are gradual indeed, and almost imperceptible; but they are not the less to be dreaded: We therefore advise travellers, labourers, and all who are much heated by day, earefully to avoid them. When the perspiration has been great, these become dangerous in proportion. By not attending to this, in slat marshy countries, where the exhalations and dews are copious, labourers are often seized with intermitting severs, quinseys, and other dangerous diseases.

Damp Beds.

BEDS become damp, either from their not being used, standing in damp houses, or in rooms without fire. Nothing is more to be dreaded by travellers than damp beds, which are very common in all places where suel is scarce. When a traveller, cold and wet, arrives at an inn, he may, by means of a good fire, warm diluting liquor, and a dry bed, have the perspiration restored; but if he be put into a cold room, and laid on a damp bed, it will be more obstructed, and the worst consequences will ensue. Travellers should avoid inns which are noted for damp beds, as they would a house insected with the plague, as no man, however robust, is proof against the danger arising from them.

But inns are not the only places where damp beds are to be met with. Beds kept in private families for the reception of flrangers are often equally dangerous. All kinds of linen and bedding, when not frequently used, become damp. How then is it possible that beds, which are not slept in above two or three times a year, should be safe? Nothing is more common than to hear people complain of having eaught cold by changing their bed. The reason is obvious: Were they careful never to sleep in a bed but what was frequently used, they would seldom find any ill consequences from a

change.

Nothing is more to be dreaded by a delicate person, when on a visit, than being laid in a bed which is kept on purpose for strangers. That ill-judged piece of complaisance becomes a real injury. All

the bad confequences from this quarter might easily be prevented in private families, by causing their fervants to sleep in the sparebods, and resign them to strangers when they come. In inns, where the beds are used almost every night, nothing else is necessary than to keep the rooms well seasoned by frequent sires, and the linen dry.

That baneful custom, said to be practised in many inns, of damping sheets, and pressing them, in order to save washing, and afterwards laying them on the beds, ought, when discovered, to be punished with severity. It is really a species of murder, and will often prove as fatal as poison or gun-shot. Indeed, no linen, especially if it has been washed in winter, ought to be used until it has been exposed for some-time to the fire; nor is this operation less necessary for linen washed in summer, if it has lain by for any length of time. This caution is the more needful, as gentlemen are often exceedingly attentive to what they eat or drink at an inn, yet pay little regard to a circumstance of more importance*.

Damp Houses

FREQUENTLY produce the like ill-confequences; for this reason, those who build, should be careful to choose a dry situation. A house which stands on a damp, marshy soil or deep clay, will never be thoroughly dry. All houses, unless where the ground is exceeding dry, should have the first sloor a little raised. Servants and others, who are obliged to live in cellars and sunk stories, seldom continue long in health: Masters ought surely to pay some regard to the bealth of their servants, as well as to their own.

Nothing is more common than for people, merely to avoid some trisling inconveniency, to hazard their lives, by inhabiting a house almost as soon as the masons, plasterers, &c. have done with it: Such houses are not only dangerous from their dampness, but likewise from the smell of lime, paint, &c. The asthmas, consumptions, and other diseases of the lungs, so incident to people who work in these articles, are sufficient proofs of their being unwhole-some.

Rooms are often rendered damp by an unfeafonable piece of cleanliness; I mean the pernicious custom of washing them immediately before company is put into them. Most people catch cold, if they sit but a very short time in a room that has been lately wash-

^{*} If a person suspects that his bed is damp, the simple precaution of taking of the sheets and lying in the blankets, with all, or most of his clothes on, will prevent all danger. I have practised this for many years, and never have been hurt by damp beds; though no constitution, without care, is proof against their baneful influence.

ed; the delicate ought carefully to avoid fuch a fituation, and even the robust are not always proof against its influence.

Sudden Transitions from Heat to Cold.

PERSPIRATION is frequently obstructed by sudden transitions from heat to cold. Colds are seldom caught, unless when people have been too much heated. Heat rarifies the blood, quickens the circulation, and increases the perspiration; but when these are suddenly checked, the consequences must be bad. It is impossible for labourers not to be too hot upon some occasions; but it is generally in their power to let themselves cool gradually, to put on their clothes when they leave off work, to make choice of a dry place to rest themselves in, and to avoid sleeping in the open fields. These easy rules, if observed, would often prevent severs and other statal disorders.

It is very common for people, when hot, to drink freely of cold water, or small liquors. This conduct is extremely dangerous. Thirst indeed is hard to bear, frequently gets the better of reason, and makes us do what our judgment disapproves. Every peasant, however, knows, if his horse be permitted to drink his belly-full of cold water after violent exercise, and he immediately put into the stable, or suffered to remain at rest, that it will kill him. This they take the utmost care to prevent. It were well if they were equally attentive to their own safety.

Thirst may be quenched many ways without swallowing large quantities of cold liquor. The fields afford a variety of acid fruits and plants, the very chewing of which would abate thirst. Water kept in the mouth for some time, and spit out again, if frequently repeated, will have the same effect. If a bit of bread be eaten along with a few mouthfuls of water, it will both quench thirst more effectually, and make the danger less. When a person is extremely hot, a mouthful of brandy, or other spirits, if it can be obtained, ought to be preferred to any thing else. But if any one has been so soolish, when hot, as to drink freely of cold liquor, he ought to continue his exercise at least, till what he drank be thoroughly warmed upon his stomach.

It would be tedious to enumerate all the bad effects which flow from drinking cold liquors when the body is hot. Sometimes this has occasioned immediate death. Hoarfeness, quinseys, and severs of various kinds, are its common consequences. Neither is it safe

^{*} People imagine, if a good fire is made in a room, after it has been washed, that there is no danger from sitting in it; but this increases the danger. The evaporation excited by the fire generates cold, and renders the damp more active.

when warm, to eat freely of raw fruits, fallads, or the like. These, indeed, have not so sudden an effect on the body as cold. liquors, but they are notwithstanding dangerous, and ought to be

Sitting in a warm room, and drinking hot liquors till the pores are quite open, and immediately going into the cold air, is extremely dangerous. Colds, coughs and inflammations of the breaft, are the usual effects of this conduct: Yet nothing is more common than for people, after they have drank warm liquors for feveral hours, to walk or ride a number of miles in the coldest night, or to ramble about in the streets*.

People are very apt, when a room is hot, to throw open a window, and to fit near it. This is a most dangerous practice. A perfon had better fit without-doors than in fuch a fituation, as the current of air is directed against one particular part of the body. Inflammatory fevers and confumptions have often been occasioned by litting or standing thinly clothed near an open window. Nor is ilceping with open windows lefs to be dreaded. That ought never to be done, even in the hottest season, unless the window is at a distance. Mechanies frequently contract fatal diseases, by working ftript at an open window, and I would advise all of them to beware of fuch a practice.

Few things expose people more to catch cold, than keeping their own houses too warm; fuch persons may be said to live in a sort of hot-houses; they can hardly stir abroad to visit a neighbour, but at the hazard of their lives. Were there no other reason for keeping houses moderately cool, that alone is fusicient: But no house that is too hot can be wholesome; hear destroys the spring and elasticity of the air, and renders it less fit for expanding the lungs, and the other purposes of respiration. Hence consumptions and other difeafes of the lungs prove fo fatal to people who work

in forges, glass-houses, and the like.

Some are even fo fool-hardy, as to plunge themselves when hot in cold water. Not only fevers, but madness itself, has frequently been the effect of this conduct. Indeed, it looks too like the action

of a madman to deferve a ferious confideration.

The refult of all these observations is, that every one ought to avoid, with the utmost attention, all fudden transitions from heat to cold, and to keep the body in as uniform a temperature as poffible; or, where that cannot be done, to take care to let it cool gradually.

People may imagine that too strict an attention to these things

^{*} The tap-rooms in London and other great towns, where fuch numbers of people (pend their evenings, are highly pernicious. The breath of a number of people, crowded into a low apartment, with the addition of fires, candles, the finoke of tobacco, and the fumes of hot liquor, &cc. multinot only render it hurtful to continue in fuch places, but dangerous to go out of them into a cold and chilly atmosphere.

would tend to render them delicate. So far is this from being my defign, that the very first rule proposed for preventing colds, is to

harden the body, by enuring it daily to the open air.

I shall put an end to this part of my subject, by giving an abfiract of the advice of Celfus, with respect to the preservation of health. "A man," fays he, "who is bleffed with good health, should " confine himfelf to no particular rules, either with respect to regimen or medicine. He ought frequently to diversify his man-" ner of living; to be fometimes in town, fometimes in the coun-" try to hunt, fail, indulge himfelf in rest, but more frequently to " use exercise. He ought to refuse no kind of food that is com-" monly used, but sometimes to eat more and sometimes less; " fometimes to make one at an entertainment, and fometimes to " forbear it; to make rather two meals a-day than one, and al-" ways to eat heartily, provided he can digest it. He ought neither " too eagerly to purfue, nor too ferupulously to avoid, intercourse " with the fair fex : Pleafures of this kind, rarely indulged, ren-" der the body alert and active; but, when too frequently repea-" ted, weak and languid. He should be careful in time of health

" not to destroy, by excesses of any kind, that vigour of constitu-" tion which should support him under sickness."

PART II.

OF DISEASES.

CHAPTER XII.

Of the Knowledge and Cure of Diseases.

HE knowledge of diseases does not depend so much upon scientific principles as many imagine. It is chiefly the refult of experience and observation. By attending the sick, and carefully observing the various occurrences in diseases, a great degree of accuracy may be acquired, both in distinguishing their symptoms, and in the application of medicines. Hence, sensible nurses, and other persons who wait upon the sick, often discover a disease sooner than those who have been bred to physic. We do not infinuate that a medical education is of no use: it is doubtless of the greatest importance; but it never can supply the place of observation and experience.

Every difease may be considered as an affemblage of symptoms, and must be distinguished by those which are most obvious and permanent. Instead, therefore, of giving a classical arrangement of diseases, according to the systematic method, it will be more suitable, in a performance of this nature, to give a sull and accurate description of each particular disease as it occurs; and, where any of the symptoms of one disease have a near resemblance to those of another, to take notice of that circumstance, and at the same time to point out the peculiar or characteristic symptoms by which it may be distinguished. By a due attention to these, the investigation of diseases will be found less difficult than most people would imagine.

A proper attention to the patient's age, fex, temper of mind, conflitution, and manner of life, will greatly affift, both in the invefti-

gation and treatment of difeases.

In childhood, the fibres are lax and foft, the nerves extremely irritable, and the fluids thin: whereas, in old age, the fibres are rigid, the nerves become almost insensible, and many of the vessels imperviable. These, and other peculiarities, render the diseases of the young and aged very different, and of course, they must require a different method of treatment.

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Females are liable to many diseases which do not afflict the other fex: besides the nervous system being more irritable in them than in men, their diseases require to be treated with greater caution. They are less able to bear large evacuations; and all stimulating medicines ought to be administered to them with a sparing hand.

Particular constitutions not only dispose persons to peculiar diseases, but likewise render it necessary to treat these diseases in a peculiar manner. Adelicate person, for example, with weak nerves, who lives mostly within doors, must not be treated, under any disease, precisely in the same manner as one who is hardy and robust,

and who is much exposed to the open air.

The temper of mind ought to be carefully attended to. Fear, anxiety, and a fretful temper, both occasion and aggravate diseases. In vain do we apply medicines to the body to remove maladies which proceed from the mind. When it is affected, the best medicine is to sooth the passions, to divert the mind from anxious thought, and to keep the patient as easy and cheerful as possible.

Attention ought likewife to be paid to the climate, or place where the patient lives, the air he breathes, his diet, &c. Such as live in low marshy situations are subject to many diseases which are unknown to the inhabitants of high countries. Those who breathe the impure air of cities, have many maladies to which the more happy rustics are entire strangers. Persons who seed grossly, and indulge in strong liquors, are liable to diseases which do not affect the temperate and abstemious, &c.

It has already been observed, that the different occupations and situations in life dispose men to peculiar diseases. It is therefore necessary to enquire into the patient's occupation, manner of life, &c. This will not only affist us in finding out the disease, but will likewise direct us in the treatment of it. It would be very imprudent to treat the laborious and the sedentary precisely in the same manner, even supposing them to labour under the same disease.

It will be proper to enquire, whether the difease be constitutional or accidental; whether it has been of long or short duration; whether it proceeds from any great and sudden alteration in the diet, manner of life, &c. The state of the patient's body, and of the other evacuations, ought also to be enquired into; and whether he can with ease perform all the vital and animal functions, as breathing, digestion, &c.

Lastly, it will be proper to enquire what diseases the patient has formerly been liable to, and what medicines were most beneficial to him; if he has a strong aversion to any particular drug, &c.

As many of the indications of cure may be answered by diet alone, it is always the first thing to be attended to in the treatment of diseases. Those who know no better, imagine that every thing which goes by the name of a medicine possesses from wonderful power or secret charm, and think, if the patient swallows enough of drugs, that he must do well. This mistake has many ill conse-

euences; it makes people trust to drugs, and neglect their own endeavours; besides, it discourages all attempts to relieve the sick where medicines cannot be obtained.

Medicines are no doubt useful in their place, and, when administered with prudence, they may do much good; but when they are put in place of every thing else, or administered at random, which is not feldom the case, they must do mischies. We therefore wish to call the attention of mankind from the pursuit of secret medicines, to such things as they are acquainted with. The proper regulation of these may often do much good, and there is little danger of their ever doing hurt.

Every difease weakens the digestive powers. The diet ought, therefore, in all diseases, to be light and of easy digestion. It would be as prudent for a person with a broken leg to attempt to walk, as for one in a sever to eat the same kind of food, and in the same quantity, as when he was in persect health. Even abstinence alone will often cure a sever, especially when it has been occasioned by

excess in eating or drinking.

In all fevers attended with inflammation, as pleurifies, peripneumonies, &c. thin gruels, wheys, watery infusions of mucilaginous plants, roots, &c. are not only proper for the patient's food, but they are likewise the best medicines which can be administered.

In fevers of a flow, nervous, or putrid kind, where there are no fymptoms of inflammation, and where the patient must be supported with cordials, that intention can always be more effectually answered by nourishing diet and generous wines, than by any me-

dicines yet known.

Nor is a proper attention to diet of less importance in chronic than in acute diseases. Persons attlicted with low spirits, wind, weak nerves, and other hypochondriacal affections, generally find more benefit from the use of solid sood and generous liquors, than from all the cordial and carminative medicines which can be admistered to them. The scurvy will sooner yield to a proper vegetable diet, than to all the antiscorbutic remedies of the shops.

In confumptions, when the stomach is so much weakened as to be unable to digest the solid sibres of animals, or even to assimilate the juices of vegetables, a diet consisting chiesty of milk will not only support the patient, but will often cure the disease after every other

medicine has failed.

Nor is an attention to other things of less importance than to diet. The strange infatuation which has long induced people to thut up the sick from all communication with the external air, has done great mischief. Not only in severs but in many other diseases, the patient will receive more benefit from having the sresh air, prudently admitted into his chamber, than from all the medicines which can be given him.

Exercise may likewise in many cases be considered as a medicine. Sailing, or riding on horseback, for example, will be of more ser-

vice in the cure of confumptions, glandular obstructions, &c. than any medicine yet known. In diseases which proceed from a relaxed state of the solids, the cold bath, and other parts of the gymnastic

regimen, will be found equally beneficial.

Few things are of greater importance in the cure of diseases than cleanliness. When a patient is suffered to lie in dirty clothes, whatever perspires from his body is again resorbed, or taken up into it, which serves to nourish the disease and increase the danger. Many diseases may be cured by cleanliness alone; most of them may be mitigated by it, and in all of them it is highly necessary

both for the patient and those who attend him.

Many other observations, were it necessary, might be adduced to prove the importance of a proper regimen in diseases. Regimen will often cure diseases without medicine, but medicine will seldom succeed where a proper regimen is neglected. For this reason, in the treatment of diseases, we have always given the first place to regimen. Those who are ignorant of medicine may confine themselves to it only. For others, who have more knowledge, we have recommended some of the most simple but approved forms of medicine in every disease. These, however, are never to be administered but by people of better understanding; nor even by them without the greatest precaution.

CHAPTER XIII.

Of Fevers in General.

ORE than one half of mankind are faid to perish by fevers. Their most general causes are infection, errors in dict, unwholesome air, violent emotions of the mind, excess or suppression of usual evacuations, external or internal injuries, and extreme degrees of heat or cold. As most of these have already been treated of at considerable length, and their effects shown, we shall not now resume the consideration of them, but only recommend it to all, as they would wish to avoid severs and other statal diseases, to pay the most punctual attention to these articles.

Fevers are not only the most frequent of all diseases, but they are likewise the most complex. In the most simple species of sever there is always a combination of several different symptoms. The distinguishing symptoms of severs are, increased heat, frequency of pulse, loss of appetite, general debility, pain in the head, and a difficulty in performing some of the vital or animal functions. The other symptoms, usually attendant on severs are, nausea, thirst, anxiety, delirium, weariness, wasting of the sless, want of sleep, or the sleep disturbed and not refreshing.

When the fever comes on gradually, the patient generally com-

plains first of langour or list lessures, foreness of the slesh or the bones, heaviness of the head, loss of appetite, sickness, with clamminess of the mouth; after some time come on excessive heat, violent thirst, restlessness, &c.

When the fever attacks fuddenly, it always begins with an uneafy fensation of excessive cold, accompanied with debility and loss of appetite; frequently the cold is attended with shivering, oppression about the heart, and sickness at stomach, or vomiting.

Fevers are divided into continual, remitting, intermitting, and fuch as are attended with cutaneous eruption or topical inflammation, as the small-pox, erysipelas, &c. By a continual sever is meant that which never leaves the patient during the whole course of the disease, or which shows no remarkable increase or abatement of the symptoms. This kind of sever is likewise divided into acute, slow, and malignant. The sever is ealled acute when its progress is quick, and the symptoms violent; but when these are more gentle, it is generally denominated slow. When with livid or petechial spots, the sever is called malignant, putrid, or petechial.

A remitting fever differs from a continual only in degree. It has frequent increases and decreases, or exacerbations and remissions, but never wholly leaves the patient during the course of the disease. Intermitting severs or agues are those, which, during the time that the patient may be said to be ill, have evident intervals

or remissions of the symptoms.

As a fever is only an effort of Nature to free herfelf from an offending cause, it is the business of those who have the care of the sick, to observe with diligence which way Nature points, and to endeavour to assist her operations. Our bodies are so framed, as to have a constant tendency to expel or throw off whatever is injurious to health. This is generally done by urine, sweat, stool,

expectoration, vomit, or some other evacuation.

There is reason to believe, that if the efforts of Nature, at the beginning of a sever, were duly attended to and promoted, it would seldom continue long; but when her attempts are either neglected or counteracted, it is no wonder if the disease proves satal. There are daily instances of persons, who after catching cold, have all the symptoms of a beginning sever; but by keeping warm, drinking diluting liquors, bathing their feet in warm water, &c. the symptoms in a few hours disappear, and the dauger is prevented. When severs of a putrid kind threaten, the best method of obviating their effects is by repeated vomits.

Our defign is to mark the most obvious symptoms in severs, and to point out the proper treatment of the patient with respect to his diet, drink, air, &c. in the different stages of the disease. In these articles, the inclinations of the patient will, in a great measure,

direct our conduct.

Almost every person in a sever complains of great thirst, and calls out for drink, especially of a cooling nature. This at once

points out the use of water, and other cooling liquors. What is so likely to abate the heat, remove spasms and obstructions, promote perspiration, increase the quantity of urine, and, in short, produce every salutary essect, in an ardent or inslammatory sever, as drinking plentifully of water, thin gruel, or any other weak liquor, of which water is the basis? The necessity of diluting liquors is pointed out by the dry tongue, the parched skin, and the burning heat, as well as by the unquenchable thirst of the patient.

Many cooling liquors, which are extremely grateful to patients in a fever, may be prepared from fruits; as decoctions of tamazinds, apple-tea, orange-whey, and the like. Mucilaginous liquors might also be prepared from marshmallow-roots, linseed, lime-tree buds, and other mild vegetables. These liquors, especially when acidulated, are highly agreeable to the patient, and should

never be denied him.

At the beginning of a fever, the patient generally complains of great lassifude or weariness, and has no inclination to move. This evidently shows the propriety of keeping him easy, and, if possible, in bed. Lying in bed relaxes the spasms, abates the violence of the circulation, and gives Nature an opportunity of exerting all her force to overcome the disease. The bed alone would often remove a sever at the beginning; but when the patient struggles with the disease, instead of driving it off, he only sixes it the deeper, and renders it more dangerous. This observation is too often verified in travellers, who happen, when on a journey, to be seized with a sever. Their anxiety to get home induces them to travel with the sever upon them, which conduct seldom fails to render it statal.

In fevers, the mind as well as the body should be kept easy. Company is seldom agreeable to the sick. Every thing that disturbs the imagination increases the disease; for which reason, every person in a fever ought to be kept perfectly quiet, and neither allowed to see nor hear any thing that may in the least affect or discom-

pose his mind.

Though the patient in a fever has the greatest inclination for drink, yet he seldom has any appetite for solid food; hence, the impropriety of urging him to take victuals, is evident. Much solid food in a sever is every way hurtful: It oppresses Nature, and instead of nourishing the patient, serves only to feed the disease. What food the patient takes should be in small quantity, light, and of easy digestion. It ought to be chiefly of the vegetable kind, as panada, roasted apples, gruels, and such like.

Poor people, when any of their family are taken ill, run directly to their rich neighbours for cordials, and pour wine, spirits, &c. into the patient, who, perhaps, never had been accustomed to taste such liquors when in health. If there be any degree of sever, this conduct must increase it, and if there be none, this is the ready way to raise one. Stuffing the patient with sweet-meats and

other delicacies, is likewise very pernicious. These are always harder to digest than common food, and hurt the stomach.

Nothing is more defired by a patient in a fever, than fresh air. It not only removes his anxiety, but cools the blood, revives the spirits, and proves every way beneficial. Many patients are in a manner stiffed to death in severs for want of fresh air; yet such is the unaccountable infatuation of most people, that the moment they think a person in a sever, they imagine he should be kept in a close chamber, into which not one particle of fresh air must be admitted. Instead of this, there ought to be a constant stream of fresh air into a sick person's chamber, so as to keep it moderately cool. Indeed, its degree of warmth ought never to be greater than is agreeable to one in persect health.

Nothing spoils the air of a sick person's chamber, or hurts the patient more, than a number of people breathing in it. When the blood is inflamed, air that has been breathed repeatedly will greatly increase the disease. Such air not only loses its spring, and becomes unsit for the purpose of respiration, but acquires a noxious quality, which renders it in a manner poisonous to the fick.

In fevers, when the patient's spirits are low and depressed, he is not only to be supported with cordials, but every method should be taken to cheer and comfort his mind. Many, from a mistaken zeal, when they think a person in danger, instead of solacing his mind with the hopes and consolations of religion, fright him with the views of hell and damnation. It would be unsuitable here to swell upon the impropriety and dangerous consequences of this conduct.

Among common people, the very name of a fever generally suggests the necessity of bleeding. This notion seems to have taken its rife from most severs in this country having been formerly of an inflammatory nature; but true inflammatory severs are now seldom to be met with. Sedentary occupations, and a different manner of living, have so changed the state of diseases in Britain, that there is now hardly one sever in ten where the lancet is necessary. In low, nervous severs, which are now so common, bleeding is really hurtful, as it weakens the patient, sinks his spirits, &c. We would recommend this general rule, never to bleed at the beginning of a fever, unless there be evident signs of inflammation. Bleeding is an excellent medicine when necessary, but should never be wantonly performed.

It is likewise a common notion, that sweating is always necessary in the beginning of a sever. When the sever proceeds from an obstructed perspiration, this notion is not ill-sounded. If the patient only lies in bed, bathes his feet and legs in warm water, and drinks freely of water-gruel, or any other weak diluting liquor, he will seldom fail to perspire freely. The warmth of the bed, and the diluting drink, will relax the universal spasm, which generally afters the skin at the beginning of a sever; it will open the pores,

and promote the perspiration, by means of which the sever may often be carried off. But instead of this, the common practice is to heap clothes upon the patient, and to give him things of a hot nature, as spirits, spiceries, &c. which increase the spasms, and

render the disease more dangerous.

In all fevers, a proper attention should be paid to the patient's longings. These are the calls of Nature, and often point out what may be of real use. Patients are not indeed to be indulged in every thing that the fickly appetite may crave; but it is generally right to let them have a little of what they eagerly defire, though it may not seem altogether proper. What the patient longs for, his stomach will generally digest; and such things have sometimes a very

happy effect.

When a patient is recovering from a fever, great care is necessary to prevent a relapse. Many persons, by too soon imagining themselves well, have lost their lives, or contracted other diseases of an obstinate nature. As the body after a fever is weak and delicate, it is necessary to guard against catching cold. Moderate exercise in the open air will be of use, but great satigue is by all means to be avoided; agreeable company will also have a good effect. The diet must be light, but nourishing. It should be taken frequently, but in small quantities. It is dangerous at such a time to cat as much as the stomach may crave.

CHAPTER XIV.

Of Intermitting Fevers, or Agues.

NTERMITTING fevers afford the best opportunity both of observing the nature of a sever, and also the effects of medicine. No person can be at a loss to distinguish an intermitting sever from any other, and the proper medicine for it is now almost universally known.

The feveral kinds of intermitting fevers take their names from the period in which the fit returns, as quotidian, tertian, quar-

tan, &c.

CAUSES.—Agues are occasioned by effluvia from putrid stagnating water. This is evident from their abounding in rainy seasons, and being most frequent in countries where the soil is marshy. This disease may also be occasioned by eating too much stone fruit, by a poor watery diet, damp houses, evening dews, lying upon the damp ground, watching, fatigue, depressing passions, and the like. When the inhabitants of a high country remove to a low one, they are generally seized with intermitting severs, and to such the disease is most apt to prove satal. In a word, whatever relaxes the solids, diminishes the perspiration, or obstructs the

circulation in the capillary or fmall vessels, disposes the body to

agnes.

SYMPTOMS.—An intermitting fever generally begins with a pain of the head and loins, weariness of the limbs, coldness of the extremities, stretching, yawning, with sometimes great sickness and vomiting; to which succeed shivering and violent shaking. Afterwards the skin becomes moist, and a profuse sweat breaks out which generally terminates the sit or paroxysm. Sometimes the disease comes on suddenly, when the person thinks himself in persect health; but it is more commonly preceded by listlessness, loss of appetite, and the symptoms mentioned above.

REGIMEN.—While the fit continues, the patient ought to drink freely of water-gruel, orange-whey, weak camomile tea; or, if his spirits be low, small wine-whey, sharpened with the juice of lemon. All his drink should be warm, as that will assist in bringing

on the fweat, and confequently shorten the paroxysm*.

Between the paroxysms the patient must be supported with food that is nourishing, but light and casy of digestion, as veal or chicken broths, sago, gruel with a little wine, light puddings, and such-like. His drink may be small negus, acidulated with the juice of lemons or oranges, and sometimes a little weak punch. He may likewise drink insusons of bitter herbs, as camomile, wormwood, or water-tresoil, and may now-and-then take a glass of small wine, in which gentian root, centaury, or some other bitter, has been insused.

As the chief intentions of cure in an ague are to brace the folids, and promote perspiration, the patient ought to take as much exercise between the fits as he can bear. If he is able to go abroad, riding on horseback, or in a carriage, will be of great service. But if he cannot bear that kind of exercise, he ought to take such as his strength will permit. Nothing tends more to prolong an intermitting sever, than indulging a lazy, indolent disposition.

Intermitting fevers, under a proper regimen, will often go off without medicine; and when the dileafe is mild, in an open dry country, there is feldom any danger from allowing it to take its course; but when the patient's strength seems to decline, or the paroxysms are so violent that his life is in danger, medicine ought immediately to be administered. This, however, should never be done till the disease be properly formed, that is to say, till the patient has had several fits of shaking and sweating.

MEDICINE.—The first thing to be done in the cure of an intermitting fever, is to cleanse the stomach and bowels. This renders the application of other medicines more safe and essections.

^{*} Dr. Lind fays, that twenty or twenty-five drops of laudanum put into a cup of the patient's drink, and given about half an hour after the commencement of the hot fit, promotes the fweat, fhorten, the fit, relieves the head, and tends greatly to remove the difeafe.

In this discase, the stomach is generally loaded with cold viscid phlegm, and frequently great quantities of bile are discharged by vomit; which points out the necessity of such evacuations. Vomits are therefore to be administered before the patient takes any other medicine. A dose of ipecacumha will generally answer this purpose very well. A scruple or half a dram of the powder will be sufficient from an adult, and for a younger person the dose must be less in proportion. After the vomit begins to operate, the patient ought to drink plentifully of weak camomile-tea. The vomit should be taken two or three hours before the return of the fit, and may be repeated at the distance of two or three days. Vomits not only cleanse the stomach, but increase the perspiration and all the other secretions, which render them of such importance, that they often cure intermitting severs without the assistance of any other medicine.

Purging medicines are useful and often necessary in intermitting fevers. A smart purge has cured an obstinate ague, after the bark and other medicines had been used in vain. Vomits are more suitable in this disease, and render purging less necessary; but if the patient be afraid to take a vomit, he ought to cleanse the bowels by a dose or two of Glauber's falt or jalap.

Bleeding may fometimes be proper at the beginning of an intermitting fever, when excessive heat, a delirium, &c. give reason to suspect an inflammation; but as the blood is seldom in an inflammatory state in intermitting severs, this operation is rarely necessary. When frequently repeated, it tends to prolong the disease.

After proper evacuations, the patient may fafely use the Peruvian bark, which may be taken in any way that is most agreeable to him. No preparation of the bark feems to answer better than the most simple form in which it can be given, viz. in powder.

Two ounces of the best bark, sinely powdered, may be divided into twenty-four doses. These may either be made into bolusses as they are used, with a little syrup of lemon, or mixed in a glass of red wine, a cup of camomile-tea, water-gruel, or any other drink that

is more agreeable to the patient*.

In an ague which returns every day, one of the above doses may be taken every two hours, or oftener during the interval of the fits. By this method, the patient will be able to take five or fix doses between each paroxysm. In a tertian or third-day ague, it will be sufficient to take a dose every third hour during the interval, and in a quartan every fourth. If the patient cannot take so large a dose of the bark, he may divide each of the powders into two parts, and take one every hour, &c. For a young person, a smaller

^{*} It has lately been observed, that the red bark is more powerful than that which has for some time been in common use. Its superior efficacy seems to arise from its being of a more perfect growth than the quill bark, and consequently more fully impregnated with the medical properties of the plant.

quantity of this medicine will be sufficient, and the dose must be adapted to the age, constitution, and violence of the symptoms*.

The above quantity of bark will frequently cure an ague; the patient, however, ought not to leave off taking the medicine as foon as the paroxysms are stopped, but should continue to use it till there is reason to believe the disease entirely overcome. Most failures in the cure are owing to patients not continuing to use the medicine long enough. They are generally directed to take it till the fits are stopped, then to leave it off, and begin again at some distance of time; by which means the disease gathers strength, and often returns with as much violence as before. A relapse may be prevented by the patient's continuing to take small doses of the medicine for some time after the symptoms disappear. This is the most safe method of cure.

An ounce of gentian root, calamus aromaticus, and orange-peel, of each half an ounce, with three or four handfuls of camonile-flowers, and an handful of coriander-feed, all bruifed together in a mortar, may be used in form or infusion of tea. About half an handful of these ingredients may be put into a tea-pot, and an English pint of boiling water poured on them. A cup of this infusion, drank three or four times a day, will greatly promote the cure. Such patients as cannot drink the watery insusion, may put two handfuls of the same ingredients into a bottle of white wine, and take a glass of it twice or thrice a day. If patients drink freely of the above, or any other proper insusion of bitters, a smaller quantity of bark than is generally used, will be sufficient to cure an aguet.

Those who cannot swallow the bark in substance, may take it in decoction or insusion. An ounce of bark in powder may be insused in a bottle of white wine for four or five days, frequently shaking the bottle, afterwards let the powder subside, and pour off the clear liquor. A wine-glassful may be drank three or four

^{*} In intermitting fevers of an obflinate nature, I have found it necessary to throw in the bark much faster. The benefits arising from this medicine, depend chiefly upon a large quantity of it being administered in a short time. Several ounces of bark given in a few days will do more than as many pounds taken in the course of some weeks. When this medicine is intended either to stop a mortification, or cure an obstinate ague, it ought to be thrown in as saft as the stomach can possibly bear it. Inattention to this circumstance has hurt the reputation of one of the best medicines of which we are in possession.

[†] There is reason to believe, that fundry of our own plants or barks, which are very bitter and astringent, would succeed in the cure of intermitting severs, especially when assisted by aromatics. But as Peruvian bark has been long approved in the cure of this disease, and is now to be obtained at a very reasonable rate, it is of less importance to search after new medicines. We cannot however omit taking notice, that Peruvian bark is very often adulterated, and that it requires considerable skill to distinguish between the genuine and the salse. This ought to make people very cautious of whom they purchase it.

times a day, or oftener, as there is occasion. If a decoction be more agreeable, an ounce of the bark, and two drams of snakeroot bruised, with an equal quantity of salt of wormwood, may be boiled in a quart of water, into an English pint. To the strained siquor may be added an equal quantity of red wine, and a glass of

it taken frequently.

In obstinate agues, the bark will be found much more efficacious when affisted by brandy, or other warm cordials, than taken alone. This I have had frequently occasion to observe in a country where intermitting fevers were endemical. The bark feldom fucceeds unless affisted by snake-root, ginger, canella alba, or some other warm aromatic. When the sits are very frequent and violent, in which case the sever often approaches towards an inslammatory nature, it will be safer to keep out the aromatics, and to add salt of tartar in their stead. But in an obstinate tertian or quartan, in the end of autumn or beginning of winter, warm and cordial medicines are absolutely necessary.

As autumnal and winter agues generally prove much more obflinate than those which attack the patient in spring or summer, it will be necessary to continue the use of medicines longer in the former than in the latter. A person who is seized with an intermitting sever in the beginning of winter, ought frequently, if the season proves rainy, to take a little medicine, although the disease may seem to be cured, to prevent a relapse, till the return of the warm season. He ought likewise to take care not to be much

abroad in wet weather, especially in cold easterly winds.

When agues are not properly cured, they often degenerate into obstinate chronical diseases, as the dropfy, jaundice, &c. For this reason, all possible care should be taken to have them radically cured, before the constitution has been too much weakened.

Though nothing is more rational than the method of treating intermitting fevers, yet, by some strange infatuation, more charms and whimsical remedies are daily used for removing this than any other disease. There is hardly an old woman who is not in possession of a nostrum for stopping an ague: and it is amazing with what readiness their pretensions are believed. Those in distress eagerly grass at any thing that promises sudden relief; but the shortest way is not always the best in the treatment of diseases. The only method to obtain a safe and lasting cure, is gradually to assist Nature in removing the cause of the disorder.

Some, indeed, try bold, or, rather, fool-hardy experiments to

^{*} In oblinate agues, when the patient is old, the habit phlegmatic, the season rainy, the situation damp, or the like, it will be necessary to mix with two ounces of the bark, half an ounce of Virginian stakeroot, and a quarter of an ounce of ginger, or some other warm aromatic; but when the symptoms are of an inflammatory nature, half an ounce offalt of wormwood, or salt of tartar, may be added to the above quantity of bark.

ure agues, as drinking great quantities of strong liquors, jumping into a river, &c. These may sometimes have the desired effect, but must always be attended with danger. When there is any degree of inflammation, or the least tendency to it, such experiments may prove fatal. The only patient whom I remember to have lost, in an intermitting sever, evidently killed himself by drinking strong liquor, which some person had persuaded him would prove an infallible remedy.

Many dirty things are extolled for the cure of intermitting fevers, as fpiders, cobwebs, fnuffings of candles, &c. Though these may sometimes succeed, yet their very nastiness is sufficient to set them aside, especially when cleanly medicines will answer the purpose better. The only medicine that can be depended upon, for thoroughly curing an intermitting sever, is the Peruvian bark. It may always be used with safety; and I can honestly declare, that in all my practice, I never knew it fail, when combined with the

medicines mentioned above, and duly perfifted in.

Where agues are endemical, even children are often afflicted with that difeafe. Such patients are very difficult to cure, as they can feldom be prevailed upon to take the bark, or any other difagreeable medicine. One method of rendering this medicine more palatable, is to make it into a mixture with diffilled waters and fy rup, and afterwards to give it an agreeable flurpness with the clixir or spirit of vitriol. This both improves the medicine, and takes off the nauseous taste. In cases where the bark cannot be administered, the saline mixture may be given with advantage to children.

Wine-whey is a very proper drink for a child in an ague; to half an English pint of which, may be put a tea-spoonful of the spirit of hartshorn. Exercise is likewise of considerable service; and when the disease proves obstinate, the child ought, if possible, to be removed to a warm, dry air. The food ought to be nourishing, and

fometimes a little generous wine should be allowed.

To children, and fuch as cannot fwallow the bark, or when the stomach will not bear it, it may be given by clyster. Half an ounce of the extract of bark, dissolved in four ounces of warm-water, with the addition of half an ounce of sweet oil, and six or eight drops of laudanum, is the form recommended by Dr. Lind for an adult, and this to be repeated every fourth hour, or oftener, as the occasion shall require. For children, the quantity of extract and

^{*} Arfnic is among the number of these bold, injudicious remedies; and ought never to be used in any case of intermitting sever whatever. (I.C.)

[†] When children cannot take the medicine recommended, they may be frequently cured by giving ten or fifteen drops of laudanum, according to the age of the patient, about half an hour before the cold stage commences. (I.C.)

[‡] See Appendix, Saline mixture.

laudanum must be proportionally lessened. Children have been cured of agues by making them wear a waistcoat with powdered bark quilted between the folds of it; by bathing them frequently in a strong decoction of the bark, and by rubbing the spine with strong spirits, or with a mixture of equal parts of laudanum, and the saponaeeous liniment.

This disease is very common, and sew patients in an ague apply to physicians unless in extremities. I here are many cases in which the disease is very irregular, being complicated with other diseases, or attended with symptoms which are both very dangerous and very dissicult to understand. All these we have purposely passed over, as they would only bewilder the generality of readers. When the disease is very irregular, or the symptoms dangerous, the patient ought immediately to apply to a physician, and strictly to solve his advice.

To prevent agues, people must endeavour to avoid their causes. These have been already pointed out in the beginning of this section; we shall therefore only add one preventive medicine, which may be of use to such as are obliged to live in low marshy countries, or who are liable to frequent attacks of this discase.

Take an ounce of the best Peruvian bark; Virginia snake-root, and orange-peel, of each half an ounce; bruise them all together, and insuse for five or fix days in a bottle of brandy, Holland-gin, or any good spirit; afterwards pour off the clear liquor, and take a wine glass of it twice or thrice a-day. This is recommending a dram; but the bitter ingredients in a great measure take off the ill effects of the spirit. Those who do not choose it in brandy, may insuse it in wine; and such as can bring themselves to chew the bark, will find that method succeed very well. Gentian root, or calamus aromaticus may also be chewed by turns for the same purpose. All bitters seem to be antidotes to agues especially those that are warm and astringent.

CHAPTER XV.

Of an Acute Continual Fever.

HIS fever is termed acute, ardent, or inflammatory. It most commonly attacks the young, or persons about the prime or vigour of life, especially such as live high, abound with blood, and whose fibres are strong and elastic. It seizes people at all seasons of the year; but is most frequent in the spring and beginning of summer.

CAUSES.—An ardent fever may be occasioned by any thing that overheats the body, or produces plethora, as violent exercise, sleeping in the sun, drinking strong liquors, eating spiceries, a full diet, with little exercise, &c. It may likewise be occasioned by

whatever obstructs the perspiration, as lying on the damp ground, drinking cold liquor when the body is hot, night watching, or the

SYMPTOMS.—A rigour or chillness generally ushers in this fever, which is soon succeeded by great heat, a frequent and full pulse, pain of the head, dry skin, redness of the eyes, a florid countenance, pains in the back, loins, &c. To these succeed difficulty of breathing, sickness, with an inclination to vomit. The patient complains of great thirst, has no appetite for folid food, is restless, and his tongue generally appears black and rough.

A delirium, excellive restlessness, great oppression of the breast, with laborious respiration, starting of the tendons, hickough, cold clammy sweats, and an involuntary discharge of urine, are very

dangerous fymptoms.

As this disease is always attended with danger, the best medical affistance ought to be procured as soon as possible. A physician may be of use at the beginning, but his skill is often of no avail afterwards. Nothing can be more unaccountable than the conduct of those who have it in their power, at the beginning of a sever, to procure the best medical assistance, yet put it off till things come to an extremity. When the disease, by delay or wrong treatment, has become incurable, and has exhausted the strength of the patient, it is in vain to hope for relief from medicine. Physicians may indeed assist Nature; but their attempts must ever prove fruitless, when she is no longer able to co-operate with their endeavours.

REGIMEN.—From the fymptoms of this disease, it is evident, that the blood and other humours require to be diluted; that the perspiration, urine, saliva, and all the other secretions, are in too small quantity; that the vessels are rigid, and the heat of the whole body too great: all these clearly point out the necessity of a regimen calculated to dilute the blood, allay the excessive heat, remove the spasmodic stricture of the vessels, and promote the secretions.

These important purposes may be greatly promoted by drinking plentifully of diluting liquors; as water-gruel, or oatmeal-tea, clear whey, barley-water, balm-tea, apple-tea, &c. These may be sharpened with juice of orange, jelly of currants, raspberries, and such-like: orange-whey is likewise an excellent cooling drink. It is made by boiling among milk and water a bitter orange sliced, till the curd separates. If no orange can be had, a lemon, a little cream of tartar, or a sew spoonfuls of vinegar, will have the same effect. Two or three spoonfuls of white wine may be occasionally added to the liquor when boiling.

If the patient be costive, an ounce of tamarinds, with two ounces of stoned raisins of the sun, and a couple of sigs, may be boiled in three English pints of water to a quart. This makes a very pleafant drink, and may be used at discretion. The common pecteral

decoction is likewise a very proper drink in this disease. A teacupful of it may be taken every two hours, or oftener, if the pa-

tient's heat and thirst be very great*.

The above liquids must all be drank a little warm. They may be used in smaller quantities at the beginning of a sever, but more freely afterwards, in order to assist in carrying off the disease, by promoting the different excretions. We have mentioned a variety of drinks, that the patient may have it in his power to choose those which are most agreeable; and that, when tired of one, he may have recourse to another.

The patient's diet must be very spare and light. All forts of sless, and even chicken-broths, are to be avoided. He may be allowed groat-gruel, panado, or light-bread boiled in water; to which may be added a few grains of common salt, and a little sugar, which will render it more palatable. He may cat roasted apples with a little sugar, toasted bread with jelly of currants,

boiled prunes, &c.

It will greatly relieve the patient, especially in an hot season, to have fresh air frequently let into his chamber. This must always be done in such a manner as not to endanger his catching cold.

It is too common in fevers to load the patient with bed-clothes, under the pretence of making him fweat, or defending him from the cold. This custom has many ill effects. It increases the heat of the body, fatigues the patient, and retards, instead of promoting,

the perspiration.

Sitting up-right in bed, if the patient is able to bear it, will often have a good effect. It relieves the head, by retarding the motion of the blood to the brain. But this posture ought never to be continued too long: and if the patient is inclined to sweat, it will be more fafe to let him lie, only raising his head a little with pillows.

Sprinkling the chamber with vinegar, juice of lemon, or vinegar and rose-water, with a little nitre dissolved in it, will greatly refresh the patient. This ought to be done frequently, especially if the weather is hot.

The patient's mouth mould be often washed with a mixture of water and honey, to which a little vinegar may be added; or with a decoction of figs in barley-water. His seet and hands ought frequently to be bathed in lukewarm water; especially if the head is affected.

The patient should be kept as quiet and easy as possible. Company, noise, and every thing that disturbs the mind, is hurtful. Even too much light, or any thing that affects the senses, ought to be avoided. His attendants should be as few as possible, and they ought not to be too often changed. His inclinations should rather

be soothed than contradicted; even the promise of what he craves

will often fitisfy him as much as its reality.

MEDICINE.—In all this and other fevers, attended with a hard, full, quick pulse, bleeding is of the greatest importance. This operation ought always to be performed as foon as the fymptoms of an inflammatory 'ever appear. The quantity of blood to be taken away, however, must be in proportion to the strength of the patient and the violence of the disease. If, after the first bleeding, the fever should rife, and the pulse become more frequent and hard, there will be a necessity for repeating it a second, and perhaps a third, or even a fourth time, which may be done at the diftance of twelve, eighteen, or twenty-four hours from each other, as the symptoms require*. If the heat an i fever be very great, forty or fifty drops of the dulcified or fweet spirit of nitre may be made into a draught, with an ounce of rofe-water, two ounces of common water, and haif an ounce of simple syrup, or a bit of loaf-sugar. This draught may be given to the patient every three or four hours while the fever is violent; afterwards once in five or fix hours will be fufficient.

If the patient be afflicted with reaching, or an inclination to vomit, it will be right to affift Nature's attempts, by giving him

weak camomile-tea, or lukewarm water to drink.

If the body be bound, a clyster of milk and water, with a little salt, and a spoonful of sweet-oil or fresh butter in it, ought daily to be administered. Should this not have the desired effect, a teaspoonful of magnesia alba, or cream of tartar, may be frequently put into his drink. He may likewise eat tamarinds, boiled prunes,

roasted apples, and the like.

If about the tenth, eleventh, or twelfth day, the pulse becomes more foft, the tongue moister, and the urine begins to let fall a reddish settlement, there is reason to expect a favourable issue to the disease. But if, instead of these symptoms, the patient's spirits grow languid, his pulse sinks, and his breathing becomes difficult, with a stupor, trembling of the nerves, starting of the tendons, &c. there is reason to fear that the consequences will be fatal. In this case, blisters must be applied to the head, ancles, inside of the legs or thighs, as there may be occasion; poultices of wheat-bred, mustard, and vinegar, may likewise be applied to the soles of the seet, and the patient must be supported with cordials, as strong wine-whey, negus, sago-gruel with wine in it, and such like.

A proper regimen is not only necessary during the fever, but likewise after the patient begins to recover. By neglecting this, many relapse, or fall into other diseases, and continue valetudinary for life. Though the body is weak after a sever, yet the diet for some time ought to be rather cleansing than of too nourishing a

^{*} During the time bleedings are employed, brisk purging with glauber falts should not be omitted. (I. C.)

nature. Too much food, drink, exercise, company, &c. are carefully to be avoided. The mind ought to be kept easy, and the patient should not pursue study, or any business that requires intense thinking.

If the digestion is bad, or the patient seized at times with severish heats, an infusion of bark in cold water will be of use. It will strengthen the stomach, and help to subdue the remains of the sever.

When the patient's strength is pretty well recovered, he ought to take some gentle laxative. An ounce of tamarinds and a dram of sena may be boiled for a sew minutes in an English pint of water, and an ounce of manua dissolved in the decoction; afterwards it may be strained, and a tea-cupful drank every hour till it operates. This dose may be repeated twice or thrice, sive or six days intervening betwixt each dose.

Those who follow laborious employments ought not to return too foon to their labour after a fever, but should keep easy till their

strength and spirits are sufficiently recruited.

CHAPTER XVI.

Of the Pleurify.

THE the picurify is an influmnation of that membrance called the picura, which lines the infide of the breast. It is distinguished into the moist and dry. In the former, the patient spits freely; in the latter, little, or none at all. There is likewise a species of this disease, which is called the spurious or basiard pleurist, in which the pain is more external, and chiefly affects the muscles between the ribs. The pleurist prevails among labouring people, especially such as work without doors, and are of a sanguine con-

stitution. It is most frequent in the spring season.

CAUSES.—The pleurify may be occasioned by whatever obstructs the perspiration; as cold northerly winds; drinking cold liquors when the body is hot; sleeping without-doors on the damp ground; wet clothes; plunging the body into cold water, or exposing it to the cold air, when covered with sweat, &c. It may be occasioned by drinking strong liquors; by the stoppage of usual evacuations; as old ulcers, issues, sweating of the feet or hands, &c. the sudden striking in of any eruption, as the itch, the measures, or the small-pox. Those who have been accustomed to bleed at a certain season of the year, are apt, if they neglect it, to be seized with a pleurify. Keeping the body too warm by means of sire, clothes, &c. renders it more liable to this disease. A pleurify may likewise be occasioned by violent exercise, as running, wrestling, leaping, or by supporting great weight, blows on the breast,

Ecc. A bad comformation of the body renders persons more liable

to this disease, such as a narrow chest, &c.

SYMPTOMS.—This, like most other severs, generally begins with chilliness and shivering, which are sollowed by heat, thirst, and resilessiness. To these succeeds a violent pricking pain in one of the sides among the ribs*. Sometimes the pain extends towards the back-bone, sometimes towards the forepart of the breast, and at other times towards the shoulder blades. The pain is generally most violent when the patient draws in his breath.

The pulse in this disease is commonly quick and hard, the urine high-coloured; and if blood be let, it is covered with a tough crust, or buffy coat. The patient's spittle is at first thin, but after-

wards it becomes groffer, and is often streaked with blood.

REGIMEN.—Nature generally endeavours to carry off this disease by a critical discharge of blood from some part of the body, by expectoration, sweat, loose stools, thick urine, or the like. We ought therefore to second her intentions by lessening the force of the circulation; relaxing the vessels, diluting the humours, and promoting expectoration.

For these purposes, the dict, as in the former disease, ought to be cool, slender and diluting. The patient must avoid all food that is viscid, hard of digestion, or that affords much nourishment; as sless, butter, cheese, eggs, milk, and every thing that is of a heating nature. His drink may be whey, or an infusion of pectoral and

ballamic vegetables+.

Barley-water, with a little honey or jelly of currants mixed with it, is a very proper drink in this difeate. It is made by boiling an ounce of pearl-barley in three English pints of water to two, which must afterwards be strained. The decoction of figs, raisins, barley, recommended in the preceding disease, is here very proper. These and other diluting liquors are not to be drank in large quantities at a time, but the patient ought to keep continually sipping them, so as to render his mouth and throat always moist. All his food and drink shouldbe taken a little warm.

The patient should be kept quiet, cool, and every way easy, as directed under the foregoing disease. His feet and hands ought daily to be bathed in lukewarm water; and he may sometimes six

up in bed for a short space to relieve his head.

MEDICINE.—Almost every person knows, when a scver is attended with a violent pain of the side, and a quick hard pulse, that bleeding is necessary. When these symptoms come on, the sooner this operation is performed the better; and the quantity at sirst must be pretty large if the patient is able to bear it. A large quantity of blood let at once, in the beginning of a pleurisy, has a much better effect than repeated small bleedings. A man may

^{*} In some cases of pleurisy, the pricking pain in the side precedes the chilliness and suivering. (1. C.)

† See Appendix, Pestoral insusan.

lose twelve or fourteen ounces of blood as soon as it is certainly known that he is seized with a pleurify. For a younger person, or

one of a delicate constitution, the quantity must be less.

If, after the first bleeding, the stitch, with the other violent symptoms, should still continue, it will be necessary, at the distance of twelve or eighteen hours, to let eight or nine ounces more. If the symptoms do not then abate, and the blood shows a strong tuffy coat, a third, or even a fourth bleeding may be requisite. If the pain of the side abates, the pulse becomes softer, or the patient begins to spit freely, bleeding ought not to be repeated. This operation is seldom necessary after the third or south day of the sever, and ought not then to be performed, unless in the most urgent circumstances.

Topical bleeding has often a very good effect in this disease. It may be performed by applying a number of leeches to the part affected, or by cupping, which is a more certain and expeditious method.

If the fitch continues after repeated bleedings, a blifter must be applied over the part affected. This not only procures a discharge from the fide, but takes off the spasm, and by that means affists in removing the cause of the disease. To prevent a strangury when the blifter is on, the patient may drink freely of the Arabic emulsion * or flax-seed tea.

If the patient is costive, a clyster of thin water-gruel, or of barley-water, in which a handful of mallows, or any other emollient vegetable has been boiled, may be daily administered. This will not only empty the bowels, but have the effect of a warm fomentation applied to the inferior viscera, which will help to make a derivation from the breast.

The expectoration or spitting may be promoted by sharp, oily, and mucilaginous medicines. For this purpose, an ounce of the oxymel, or the vinegar of squills, may be added to six ounces of the pectoral decoction, and two table-spoonfuls of it taken every two hours.

Should the squill disagree with the stomach, the oily emulsion may be administered; or, in place of it, two ounces of the oil of sweet-almonds, or oil of olives, and two ounces of the syrup of violets may be mixed with as much sugar-candy powdered, as will make an electuary of the consistence of honey. The patient may take a tea-spoonful of this frequently, when the cough is trouble-some. Should oily medicines prove trauseous, which is sometimes the case, two table-spoonfuls of the solution of gum-ammoniac in barley-water may be given three or sour times a-days.

If the patient does not perspire, but has a burning heat upon his skin, and passes very little water, some small doses of purified

^{*} See Appendix, Arabic Emulsion.

[†] See Appendix, Oily Emulsion.

⁵ See Appendix, Solution of Gum-Ammoniac.

nitre and camphire will be of use. Two drams of the former may be rubbed with five or fix grains of the latter in a mortar, and the whole divided into fix doses, one of which may be taken every five or fix hours, in a little of the patient's ordinary drink.

There is one medicine which some reckon almost a specific in the pleurify, viz. the decoction of the Seneka rattle-snake root*. After bleeding and other evacuations have been premised, the patient may take two, three, or four table-spoonfuls of this decoction, according as his stomach will bear it, three or four times aday. If it should occasion vomiting, two or three ounces of simple cinnamon-water may be mixed with the quantity of decoction here directed, or it may be taken in smaller doses. As this medicine promotes perspiration and urine, and likewise keeps the body easy, it may be of some service in a pleurify, or any other instammation of the breast.

No one will imagine that these medicines are all to be used at the same time. We have mentioned different things, on purpose that people may have it in their power to choose; and likewise, that when one cannot be obtained, they may make use of another. Different medicines are no doubt necessary in the different periods of a disorder; and where one fails of success, or disagrees with

the patient, it will be proper to try another.

What is called the crifis, or height of the fever, is fometimes attended with very alarming fymptoms; as difficulty of breathing, an irregular pulse, convulsive motions, &c. These are apt to frighten the attendants, and induce them to do improper things, as bleeding the patient, giving him strong stimulating medicines, or the like. But they are only the struggles of Nature to overcome the disease, in which she ought to be affished by plenty of diluting drink, which is then peculiarly necessary. If the patient's strength, however, be much exhausted by the disease, it will be necessary at this time to support him with frequent small draughts of winewhey, negus, or the like.

When the pain and fever are gone, it will be proper, after the patient has recovered sufficient strength, to give him some gentle purges, as those directed towards the end of the acute continual fever. He ought likewise to use a light diet, of easy digestion, and his drink should be butter-milk, whey, and other things of a cleans-

ing nature.

The Bastard or Spurious Pleurify

GENERALLY goes off by keeping worm for a few days, drinking plenty of diluting liquors, and observing a cooling regimen. It is known by a dry cough, a quick pulse, and a difficulty

of lying on the affected fide, which last does not always happen in the true pleurify. Sometimes indeed this disease proves obstinate, and requires bleeding, with cupping, and scarifications of the part affected. These, together with the use of nitrous and other cooling medicines, seldom fail to effect a cure.

The Paraphrenitis,

OR inflammation of the diaphragm, is so nearly connected with the pleurity, and resembles it so much in the manner of treatment, that it is scarce necessary to consider it as a separate disease.

It is attended with a very acute fever, and an extreme pain in the part affected, which is generally augmented by coughing, fneezing, drawing in the breath, taking food, going to ftool, making water, &cc. Hence the patient breathes quick, and draws in his bowels to prevent the motion of the diaphragm; is reftlefs, anxious, has a dry cough, a hickough and often a delirium. A convultive laugh, or a kind of involuntary grin, is a common fymptom of this difease.

Every method must be taken to prevent a suppuration, as it is impossible to save the patient's life when this happens. The regimen and medicine are in all respects the same as in the pleurity. Emollient clysters are peculiarly useful, as they relax the bowels, and by that means make a derivation from the part affected.

CHAPTER XVII.

Of a Peripneumony or Inflammation of the Lungs.

S this difease affects an organ which is absolutely necessary to life, it is always attended with danger. Persons who abound with blood, whose sibres are tense and rigid, who seed upon gross aliment, and drink strong viscid liquors, are most liable to a peripneumony. It is generally stall to those who have a slat breast, or narrow chest, and to such as are afflicted with an asthma, especially in the decline of life. Sometimes the inflammation reaches to one lobe of the lungs only, at other times the whole of the organ is affected; in which case the disease can hardly fail to prove facal.

When the disease proceeds from a viscid matter obstructing the vessels of the lungs, it is called a *spurious* or bastard peripneumony. When it arises from a thin acrid desluxion on the lungs, it is de-

nominated a catarrhal peripneumony, &c.

CAUSES.—An inflammation of the lungs is fometimes a primary difease, and sometimes it is the consequence of other dis-

eases, as a quinsey, a pleurify, &c. It proceeds from the same causes as the pleurify, viz. an obstructed perspiration from cold, wet clothes, &c. or from an increased circulation of the blood, by violent exercise, the use of spiceries, andent spirits, and such like. The pleurify and peripheumony are often complicated; in which case the disease is called a pleuroper ipneumony.

SYMP FOMS.—Most of the symptoms of a pleurify likewife attend an inflammation of the lungs; only in the latter the pulse is more fost and the pain less acute; but the difficulty of breatling,

and oppression of the breast, are generally greater.

REGIMEN. — The regimen and medicine are in all respects the same in the true peripneumony as in the pleurify, the aliment ought to be more slender and thin in this than in any other inslammatory disease. Dr. Arbuthnot afferts, that even common whey is sufficient to support the patient, and that decoctions of barley, and insusions of sennel roots in warm water with milk, are the most proper both for drink and nourissiment. He recommends the steam of warm water taken in by the breath, which serves as a kind of internal somentation, and nelps to attenuate the impacted humours. If the patient has loose thools, but is not weakened by them, they are not to be stopped, but rather promoted by emollient elysters.

The fourious or baftard peripheumony is occasioned by a viscid matter obstructing the vessels of the lungs. It commonly attacks

the old, infirm, and phlegmatic, in winter or wet feafons.

The patient at the beginning is cold and hot by turns, has a fmall quick pulse, feels a sense of weight upon his breast, breathes with difficulty, and sometimes complains of a pain and giddiness of his head. His urine is usually pale, and his colour very little changed.

The diet in this, as well as in the true peripneumony, must be very slender, as weak broths, sharpened with the juice of orange or lemon, and such-like. His drink may be thin water-gruel sweetened with honey, or a decoction of the roots of fennel, liquorice, and quick grass. An ounce of each of these may be boiled in three English pints of water to a quart, and sharpened with a little cur-

rant jelly, or the like.

Bleeding and purging are generally proper at the beginning of this disease; but if the patient's spittle is pretty thick, neither of them are necessary. It will be sufficient to assist the expectoration by some of the sharp medicines recommended for that purpose in the pleurisy, as the solution of gum ammoniac with oxymcl of squills, &c. Blisters have generally a good effect, and ought to be applied pretty early*.

If the patient does not spit, he must be bled according as his strength will permit, and have a gentle purge administered. Af-

^{*} Previous to the application of blifters, cupping-glaffes flould be applied to the painful part, which generally afford confiderable relief. (I.C.)

terwards his body must be kept open with clysters, and the expectoration promoted, by taking every four hours two table-spoonfuls

of the folution mentioned above.

When an inflammation of the breaft does not yield to bleeding, bliftering, and other evacuations, it commonly ends in a suppuration, which is more or less dangerous, according to the part where it is situated. When this happens in the pleura, it sometimes breaks outwardly, and the matter is discharged by the wound.

When the suppuration happens within the substance or body of the lungs, the matter may be discharged by expectoration; but if the matter floats in the cavity of the breast, between the pleura and the lungs, it can only be discharged by an incision made betwixt

the ribs.

If the patient's strength does not return after the inflammation is to all appearance removed; if his pulse continues quick though soft, his breathing difficult and oppressed; if he has cold shiverings at times, his cheeks slushed, his lips dry; and if he complains of thirst, and want of appetite, there is reason to fear a suppuration, and that a phthis or consumption of the lungs will ensue*. We shall therefore next proceed to consider the proper treatment of that disease.

CHAPTER XVIII.

Of Consumptions.

A COMSUMPTION is a wasting or decay of the whole body from an ulcer, tubercles, or concretions of the lungs, an

empyema, an atrophy, or a cachexy.

Dr. Arbuthnot observes, that in his time confumptions made up above one-tenth part of the bills of mortality in and about London. There is reason to believe they have rather increased since; and we know from experience, that they are not less fatal in some other towns of England than in London.

Young persons, betwixt the age of fifteen and thirty, of a stender make, long neck, high shoulders, and stat breasts, are most lia-

ble to this disease.

Confumptions prevail more in England, than in any other part of the world, owing perhaps to the great use of animal food and malt liquors, the general application to sedentary employments,

^{*} In cases of this kind, where several quarts of pus or matter have been discharged from the mouth, the patient has been recovered by refiding, during spring and summer, in the country, affisted by a nourishing diet, exercise on horse-back, and the extrast of bark. (1. C.)

and the great quantity of pit-coal which is there burnt; to which we may add the perpetual changes in the atmosphere, or variableness of the weather.

CAUSES.—It has already been observed, that an inflammation in the breast often ends in an imposthume: Consequently, whatever disposes people to this disease, must likewise be considered as a cause of consumptions.

Other difeases, by vitiating the habit, may likewise occasion confumptions; as the scurvy, the scrophula, or king's evil, the vene-

real disease, the asthma, small-pox, measles, &c.

As this disease is seldom cured, we shall endeavour the more particularly to point out its causes, in order that people may be ena-

bled to avoid it. These are:

——Confined or unwholefome air. When this fluid is impregnated with the fumes of metals or minerals, it proves extremely hurtful to the lungs, and often corrodes the tender vessels of that necessary organ.

——Violent passions, exertions, or affections of the mind; as gricf, disappointment, anxiety, or close application to the study of

abstruse arts or sciences.

— Great evacuations; as fweating, diarrhoeas, diabetes, excessive venery, the sluor albus, an over discharge of the menstrual slux, giving suck too long, &c.

---The fudden stoppage of customary evacuations; as the bleeding piles, sweating of the feet, bleeding at the nose, the

menses, issues, ulcers, or cruptions of any kind.

——Injuries done to the lungs, calculi, &c. I lately faw the fymptoms of a phthifis occasioned by a small bone sticking in the branchæ. It was afterwards vomited along with a considerable quantity of purulent matter, and the patient, by a proper regimen, and the use of the Peruvian bark, recovered.

—Making a fudden transition from a hot ,to a very cold climate, change of apparel, or whatever greatly lessens the perspiration.

——Frequent and excessive debaucheries. Late watching, and drinking strong liquors, which generally go together, can hardly fail to destroy the lungs. Hence, the bon companion generally falls a facrifice to this disease.

---Infection. It is suspicious that Consumptions are caught by sleeping with the diseased; for which reason, this should be carefully avoided. It cannot be of great benefit to the sick, and must

hurt those in health.

——Occupations in life. Those artificers who sit much, and are constantly leaning forward, or pressing upon the stomach and breast, as cutlers, taylors, shoe-makers, seamstresses, &c. often die of consumptions. They likewise prove fatal to singers, and all who have occasion to make frequent and violent exertions of the lungs.

-Cold. More confumptive patients date the beginning of their diforders from wet feet, damp beds, night air, wet clothes,

or catching cold after the body had been heated, than from all other causes.

Sharp, faline, and aromatic aliments, which heat and inflame the blood, are likewise frequently the cause of consumptions.

We shall only add, that this disease is often owing to an hereditary taint, or a scrophulous habit; in which case it is generally incurable.

SYMPTOMS.—This difease generally begins with a dry cough, which often continues for some months. If a disposition to vomit after eating be excited by it, there is still greater reason to sear an approaching consumption. The patient complains of a more than usual degree of heat, a pain and oppression of the breast, especially after motion; his spittle is of a faltish taste, and sometimes mixed with blood. He is apt to be sad; his appetite is bad, and his thirst great. There is generally a quick, soft, small pulse; though sometimes the pulse is pretty sull, and rather hard. These are the common symptoms of a beginning consumption.

Afterwards the patient begins to fpit a greenish, white, or bloody matter. His body is extenuated by the hectic fever, and colliquative sweats, which mutually succeed one another, viz. the one towards night, and the other in the morning. A looseness, and an excessive discharge of urine, are often troublesome symptoms at this time, and greatly weaken the patient. There is a burning heat in the palms of the hands, and the face generally sushes after eating; the singers become remarkably small, the nails are bent in-

wards, and the hairs fall off.

At last the swelling of the feet and legs, the total loss of strength, the finking of the eyes, the dissipation of swallowing, and the coldness of the extremities, show the immediate approach of death, which the patient seldom believes to be so near. Such is the usual progress of this disease, which, if not early checked, commonly fees all medicine at desiance.

REGIMEN.—On the first appearance of a consumption, if the patient lives in a large town, or any place where the air is consined, he ought immediately to quit it, and to make choice of a situation in the country, where the air is pure and free. Here he must not remain inactive, but take every day as much exercise as he can bear.

The best method of taking exercise is to ride on horseback, as this gives the body a great deal of motion without much staigue. Such as cannot bear this kind of exercise, must make use of a carriage. A long journey, as it amuses the mind by a continual change of objects, is greatly preserable to riding the same ground over and over. Care however must be taken to avoid catching cold from wet clothes, damp beds, or the like. The patient ought always to sinish his ride in the morning, or at least before dinner; other wise it will oftener do harm than good.

It is a pity that those who attend the fick seldom recommend

riding in this disease, till the patient is either unable to bear it, or the malady has become incurable. Patients are likewise apt to trifle with every thing that is in their own power. They cannot see how one of the common actions of life should prove a remedy in an obstinate disease, and therefore they reject it, while they greedily hunt after relief from medicine, merely because they do not understand it.

Those who have strength and courage to undertake a pretty long voyage, may expect great advantage from it. This, to my knowledge, has frequently cured a consumption after the patient was, to all appearance, far advanced in that disease, and where medicine had proved ineffectual. Hence it is reasonable to conclude, that if a voyage were undertaken in due time, it would seldom fail

to perform a cure*.

Such as try this method of cure ought to carry as much fresh provisions along with them as will serve the whole time they are at sea. As milk is not easily obtained in this situation, they ought to live upon fruits, rye and Indian mush, and the broth of chickens, or other young animals, which can be kept alive on board. Such voyages should be undertaken, if possible, in the mildest seafon, and towards a warmer climate.

Those who have not courage for a long voyage may travel into a more southern climate, as the south of France, Spain or Portugal; and if they find the air of these countries agree well with them, they should continue there, at least till their health be con-

firmed.

Next to proper air and exercife, we would recommend a due attention to diet. The patient should eat nothing that is either heating or hard of digestion, and his drink must be of a soft and cooling nature. All the diet ought to be calculated to nourish and support the patient. For this purpose, he must keep chiefly to the use of vegetables and milk. Milk alone is of more value in this disease than the whole materia medica.

Affes' milk is commonly reckoned preferable to any other; but it cannot always be obtained; besides, it is generally taken in a very small quantity; whereas, to produce any effects, it ought to make a considerable part of the patient's diet. It is hardly to be expected, that a gill or two of asses' milk, drank in the space of

^{*} The greatest benefit derived to consumptive patients in going to sea, is in proportion to the time they are on the ocean, the temperature of the latitude they sail in, which should be agreeably warm. Therefore, a long voyage, commenced at an early period of this disease, or what would be more beneficial, a continuance for ten or twelve months, on the ocean, a patient in such a situation, with tolerable accommodation, would in all probability effect a recovery. (1. C.)

[†] Though I do not remember to have feen one instance of a genuine consumption of the lungs cured by medicine, yet I have known a West. India voyage work wonders in that dreadful disorder.

twenty-four hours, should be able to produce any confiderable change in the humours of an adult; and when people do not perceive its effects soon, they lose hope, and so leave it off. Hence, this medicine, however valuable, very seldom performs a cure. The reason is obvious; it is commonly used too late, is taken in too small quantities, and is not duly persisted in.

I have known very extraordinary effects from affes' milk in obftinate coughs, which threatened a confumption of the lungs; and do verily believe, if used at this period, that it would seldom fail; but if it be delayed till an user is formed, which is generally the

case, how can it be expected to succeed?

Assessment Assessment

If the milk should happen to purge, it may be mixed with old conferve of roses. When that cannot be obtained, the powder of crabs' claws may be used in its stead. Asses' milk is usually ordered to be drank warm in bed; but as it generally throw the patient into a sweat when taken in this way, it would perhaps be better to

give it after he rifes.

Some extraordinary cures in comfumptive cases have been performed by women's milk. Could this be obtained in sufficient quantity, we would recommend it in preference to any other. It is better if the patient can suck it from the breast, than to drink it afterwards. I knew a man who was reduced to such a degree of weakness in a consumption, as not to be able to turn himself in bed. His wife was at that time giving suck, and the child happening to die, he sucked her breasts, not with a view to reap any advantage from the milk, but to make her easy. Finding himself greatly benefited by it, he continued to suck her till he became perfectly well, and is at present a strong and healthy man.

Some prefer butter-milk; it is a very valuable medicine if the stomach be able to bear it. It does not agree with every person at first; and is often laid aside without a sufficient trial. It should at first be taken sparingly, and the quantity gradually increased, until it comes to be almost the sole food. I never knew it succeed unless

where the patient almost lived upon it.

Cows' milk is most readily obtained of any, and though it be not so easily digested as that of asses' or mares', it may be rendered lighter by adding to it an equal quantity of barley-water, or allowing it to stand for some hours, and afterwards taking off the cream. If it should, notwithstanding, prove heavy on the stomach, a small quantity of brandy or rum, with a little sugar, may be added, which will render it both more light and nourishing.

Milk may for some time disagree with a stomach that has not

been accustomed to digest any thing but slesh and strong liquors, which is the case with many of those who fall into consumptions. We do not however advise those who have been accustomed to animal food and strong liquors, to leave them off all at once. This might be dangerous. It will be necessary for such to eat a little once a day of the slesh of some young animal, or rather to use the broth made of chickens, veal, lamb, or such-like. They ought likewise to drink a little wine made into negus, or diluted with twice or thrice its quantity of water, and to make it gradually weaker till they can leave it off altogether.

These must be used only as preparatives to a diet consisting chiefly of milk and vegetables, which the sooner-that the patient can be brought to bear, the better. Rice and milk or barley and milk, boiled with a little sugar, make very proper sood. Ripe fruits roassed, baked, or boiled, are likewise proper, as goose or currant berry tarts, apples roassed, or boiled in milk, &c. The jellies, conferves, and preferves, &c. of ripe subacid fruits, ought to be eaten plentifully, as the jelly of currants, conferve of roses, preserved

plums, cherries, &c.

Wholesome air, proper exercise, and a diet consisting chiefly of these and other vegetables, with milk, is the only course that can be depended on in a beginning consumption. If the patient has strength and sufficient resolution to persist in this course, he will

feldom be disappointed of a cure.

In the populous town of Sheffield, where confumptions are very common, I have frequently feen confumptive patients, who had been fent to the country with orders to ride, and live upon milk and vegetables, return in a few months quite plump, and free from any complaint. This indeed was not always the cafe, especially when the disease was hereditary, or far advanced; but it was the only method in which success was to be expected: where it failed, I never knew medicine succeed.

If the patient's strength and spirits slag, he must be supported by strong broths, jellies, and such-like. Some recommend shell-sish in this disorder, and with some reason, as they are nourishing and restorative*. All the food and drink ought however to be taken in small quantities, lest an overcharge of fresh chyle should oppress the lungs, and too much accelerate the circulation of the blood.

The patient's mind ought to be kept as eafy and cheerful as possible. Confumptions are often occasioned, and always aggravated, by a melancholy cast of mind; for which reason, music, cheerful company, and every thing that inspires mirth, are highly beneficial. The patient ought seldom to be left alone, as brooding over his calamities is sure to render them worse.

over his calamities is lure to render them worle

^{*} I have often known perfons of a confumptive habit, where the fymptoms were not violent, reap great benefit from the use of oysters. They generally ate them raw, and drank the juice along with them.

MEDICINE.—Though the cure of this difease depends chiefly upon regimen and the patient's own endeavours, yet we shall mention a sew things which may be of service in relieving some

of the more violent fymptoms.

In the first stage of a consumption, the cough may sometimes be appeared by bleeding; and the expectoration may be promoted by the following medicines. Take fresh squills, gum-ammoniac, and powdered cardamum seeds, of each a quarter of an ounce; beat them together in a mortar, and if the mass proves too hard for pills, a little of any kind of syrup may be added to it. This may be formed into pills of a moderate size, and four or sive of them taken twice or thrice a-day, according as the patient's stomach will bear them.

The lac ammoniacum, or milk of gum ammoniac, as it is called, is likewife a proper medicine in this stage of the disease. It may

be used as directed in the pleurify.

A mixture made of equal parts of lemon-juice, fine honey, and fyrup of poppies, may likewife be used. Four ounces of each of these may be simmered together in a sauce-pan, over a gentle sire, and a table-spoonful of it taken at any time when the cough is troublesome.

It is common in this stage of the discase to load the patient's stomach with oily and balsamic medicines. These, instead of removing the cause of the discase, tend rather to increase it, by heating the blood, while they pall the appetite, relax the solids, and prove every way hurtful to the patient. Whatever is used for removing the cough, besides riding and other proper regimen, ought to be medicines of a sharp and cleansing nature; as oxymel, syrup of lemon, &c.

Acids have peculiarly good effects in this difease; they both tend to quench the patient's thirst and to cool the blood. The vegetable acids, as apples, oranges, lemons, &c. appear to be the most proper. I have known patients such the juice of several lemons every day with manifest advantage, and would for this reason recommend acid vegetables to be taken in as great quantity as

the stomach will bear them.

For the patient's drink, we would recommend infusions or the bitter plants, as ground-ivy, the lesser centaury, camomile slowers or water-tresoil. These infusions may be drank at pleasure. They strengthen the stomach, promote digestions, and at the same time answer all the purposes of dilution, and quench thirst much better than things that are luscious or sweet. But if the patient spits blood, he ought to use, for his ordinary drink, insusions or decoctions of the vulnerary roots, plants, &c*.

There are many other mucilaginous plants and feeds, of a healing and agglutinating nature, from which decoctions or infusions

may be prepared with the fame intention; as the orches, the quince-feed, coltsfoot, linfeed, farfaparilla, &c. Simple infusion or boiling is all that is necessary, and the dose may be at discretion.

The conferve of roles is here peculiarly proper. It may either be put into the decoction above prescribed, or eaten by itself. No benefit is to be expected from trisling doses of this medicine. I never knew it of any service unless where three or four ounces at least were used daily for a considerable time. In this way I have seen it produce very happy effects, and would recommend it whenever there is a discharge of blood from the lungs.

When the fpitting up of gross matter, oppression of the breast, and the heetic symptoms, show that an imposshume is formed in the lungs, we would recommend the bark, to support the strength

of the patient.

An ounce of the bark in powder may be divided into eighteen or twenty doles, of which one may be taken every three hours through the day, in a little fyrup, or a cup of horehound-tea.

If the bark should happen to purge, it may be made into an electuary, with the conserve of roses, thus: Take old conserve of roses a quarter of a pound, bark in powder an ounce, syrup of orange or lemon, as much as will make it of the consistence of honey. This quantity will serve the patient sour or sive days, and may be repeated as there is occasion.

Such as cannot take the bark in fubstance, may infuse it in cold water. This seems to be the best menstruum for extracting its virtues. Half an ounce of bark in powder may be insufed for twenty-four hours in half an English pint of water. Afterwards let it be passed through a fine strainer, and an ordinary tea-cupful of

it taken three or four times a-day.

We would not recommend the bark while there are any symptoms of an inflammation of the breast; but when it is certainly known that matter is collected there, it is one of the best medicines which can be used. Few patients indeed have resolution enough to give the bark a fair trial at this period of the disease, otherwise we have reason to believe that some benefit might be reaped from it.

When it is evident that there is an imposshume in the breast, and the matter can neither be spit up nor carried off by absorption, the patient must endeavour to make it break inwardly, by drawing in the steams of warm water or vinegar with his breath, coughing, laughing, or bawling aloud, &c. When it happens to burst within the lungs, the matter may be discharged by the mouth. Sometimes indeed the bursting of the vomica occasions immediate death, by suffocating the patient. When the quantity of matter is great, and the patient's strength exhausted, this is commonly the case. At any rate, he is ready to fall into a swoon, and should have volatile falts or spirits held to his nose.

If the matter discharged be thick, and the cough and breathing become easier, there may be some hopes of a cure. The diet at

this time ought to be light, but restorative, as chicken-broths, sagegruel, rice-milk, &c. the drink, butter-milk, or whey, sweetened with honey. This is likewise a proper time for using the Peruvian

bark, which may be taken as directed above.

If the vomica or imposshume should dischargeitself into the cavity of the breast, betwixt the pleura and the lungs, there is no way of getting the matter out but by an incision, as has already been observed. As this operation must always be performed by a surgeon, it is not necessary here to describe it. We shall only add, that it is not so dreadful as people are apt to imagine, and that it is the only chance the patient in this case has for his life.

A NERVOUS CONSUMPTION, is a wasting or decay of the whole body, without any considerable degree of fever, cough or dissibility of breathing. It is attended with indigestion, weakness,

and want of appetite, &c.

Those who are of a fretful temper, who indulge in spirituous liquors, or who breathe an unwholesome air, are most liable to this disease.

We would chiefly recommend, for the cure of a nervous confumption, a light and nourifhing diet, plenty of exercise in a free open air, and the use of such bitters as brace and strengthen the stomach; as the bark, gentian root, camomile, horehound, &c. These may be insused in water or wine, and a glass of it drank frequently.

It will greatly affift the digeftion, and promote the cure of this difease, to take twice a-day twenty or thirty droops of the elixir of vitriol in a glass of wine or water. The chalybeate wine is likewise an excellent medicine in this case. It strengthens the folids, and powerfully affists Nature in the preparation of good blood*.

Agreeable amusements, cheerful company, and riding about, are however preferable to all medicines in this disease. For which reason, when the patient can afford it, we would recommend a long journey of pleasure, as the most likely means to restore his health.

What is called a fymptomatic confumption cannot be cured without first removing the disease by which it is occasioned. Thus, when a comfumption proceeds from the scrophula or king's evil from the scurvy, the asthma, the venereal disease, &c. a due attention must be paid to the malady from whence it arises, and the regimen and

medicine directed accordingly.

When excessive evacuations of any kind occasion a consumption, they must not only be restrained, but the patient's strength must be restored by gentle exercise, nourishing diet, and generous cordials. Young and delicate mothers often fall into consumptions, by giving suck too long. As soon as they perceive their strength and appetite begin to fail, they ought immediately to wean the child, or provide another nurse, otherwise they cannot expect a cure.

Let all, as they wish to avoid confumptions, take as much exercise without-doors as they can, avoid unwholesome air, and study sobviety. Consumptions owe their present increase not a little to the fashion of sitting up late, eating hot suppers, and spending every evening over a bowl of hot punch or other strong liquors. These liquors, when too freely used, not only hurt the digestion, and spoil the appetite, but heat and instance the blood, and set the whole constitution on sire.

CHAPTER XIX.

Of the Slow or Nervous Fever.

ERVOUS fevers have increased greatly of late years in this country, owing, doubtless, to our different manner of living, and the increase of sedentary employments; as they commonly attack persons of a weak, relaxed habit, who neglect exercise, eat little solid sood, study hard, or include in spirituous liquors.

CAUSES.—Nervous fevers may be occasioned by whatever depresses the spirits, or impoverishes the blood; as grief, fear, anxiety, want of sleep, intense thought, living on poor watery diet, unripe fruits, cucumbers, melons, mushrooms, &c. They may likewise be occasioned by damp, confined, or unwholesome air. Hence they are very common in rainy seasons, and prove most fatal to those who live in dirty low houses, crowded streets, hospitals, jails, or such-like places.

Persons whose constitutions have been broken by excessive venery, frequent salivations, too free an use of purgative medicines, or any other excessive evacuations, are most liable to this disease.

Keeping on wet clothes, lying on the damp ground, excessive satigue, and whatever obstructs the perspiration, or causes a spasmodic stricture of the solids, may likewise occasion nervous severs. We shall only add, frequent and great irregularities in diet. Too great abstinence, as well as excess, is hurtful. Nothing tends so much to preserve the body in a sound state as a regular diet; nor can any thing contribute more to occasion severs of the worst kind than its opposite.

SYMPTOMS.—Low spirits, want of appetite, weakness, weariness after motion, watchfulness, deep sighing, and dejection of mind, are generally the forerunners of this disease. These are succeeded by a quick low pulse, a dry tongue without any con-

fiderable thirst, chillness and slushing in turns, &c.

After some time, the patient complains of a giddiness and pain of the head, has a nausea, with reachings and vomiting; the pulle is quick, and sometimes intermitting; the urine pale, resembling

dead fmall beer, and the breathing is difficult, with oppression of

the breast, and slight alienations of mind.

If towards the ninth, tenth, or twelfth day, the tongue becomes more moift, with a plentiful fpitting, a gentle purging, or a moifture upon the fkin; or if a suppuration happens in one or both ears, or large pustules break our about the lips and nose, there is reason to hope for a favourable criss.

But if there is an exceffive loofenefs, or wasting fiveats, with frequent fainting fits; if the tongue, when put out, trembles exceftively, and the extremities feel cold, with a fluttering or flow creeping pulse; if there is a flarting of the tendons, and almost total loss of fight and hearing, and an involuntary discharge by stool and urine, there is great reason to fear that death is approaching.

REGIMEN.—It is very necessary in this disease to keep the patient cool and quiet. The least motion will fatigue him, and will be apt to occasion weariness and even faintings. His mind ought not only to be kept easy, but soothed and comforted with hopes of a speedy recovery. Nothing is more hurtful in low severs of this kind than presenting to the patient's imagination gloomy or frightful ideas. These of themselves often occasion nervous severs, and must likewise aggravate them.

The patient must not be kept too low. His strength and spirits ought to be supported by nourishing diet and generous cordials. For this purpose, his gruel, panado, or whatever sood he takes, must be mixed with wine, according as the symptoms may require.

Pretty strong wine-whey, or small negus, sharpened with the juice of orange or lemon, will be proper for his ordinary drink. Mustard-whey is likewise a very proper drink in this sever, and may be rendered an excellent cordial-medicine by the addition of a proper

quantity of white-wine*.

Wine, in this disease, if it could be obtained genuine, is almost the only medicine that would be necessary. Good wine possesses all the virtues of the cordial medicines, while it is free from many of their bad qualities. I say good wine; for, however common this article of luxury is now become, it is rarely to be obtained genuine, especially by the poor, who are obliged to pur-

chase it in small quantities.

I have often feen patients in low nervous fevers, where the pulle could hardly be felt, with a conftant delirium, coldness of the extremities, and almost every other mortal symptom, recover, by using in whey, gruel and negus, a bottle or two of strong wine every day. Good old sound claret is the best, and may be made into negus, or given by itself, as circumstances require.

In a word, the great aim in this difease is to support the patient's strength, by giving him frequently small quantities of the above, or other drinks of a warm and cordial nature. He is not,

however, to be over-heated either with liquor or clothes; and his

food ought to be light, and given in small quantities.

MEDICINE.—Where a naufea, load, and fickness at stomach prevail at the beginning of the fever, it will be necessary to give the patient a gentle vomit. Fifteen or twenty grains of ipccacuanha in sine powder, or a few spoonfuls of the vomiting julept, will generally answer this purpose very well. This may be repeated any time before the third or fourth day, if the above symptoms continue. Vomits not only clean the stomach, but, by the general shock which they give, promote the perspiration, and have many other excellent essential single soft instantantion, and nature wants rousing.

Such as dare not venture upon a vomit, may clean the bowels.

by an infusion of senna and manna.

In all fevers, the great point is to regulate the fymptoms, so as to prevent them from going to either extreme. A hus, in fevers of the inflammatory kind, where the force of the circulation is too great, or the blood dense, and the fibres too rigid, bleeding and other evacuations are necessary. But in nervous severs, where nature slags, and the solids relaxed, wine, with other cordials

should be plentifully administered.

It is necessary to caution people against bleeding in this disease, as there is generally at the beginning an universal stricture upon the vessels, and sometimes an oppression and difficulty of breathing, which suggest the idea of a plethora, or too great a quantity of blood. I have known even some of the faculty deceived by their own feelings in this respect, so far as to insist upon being bled, when it was evident, from the consequences, that the operation was improper.

Though bleeding is generally improper in this disease, yet bliftering is highly necessary. Blisters may be applied at all times of the fever with great advantage. If the patient is delirious, he ought to be blistered on the neck or head, and it will be the safest course, while the insensibility continues, as soon as the discharge occasioned by one blister abates, to apply another to some other part of the body, and by that means, keep up a continual

fuccession of them till he be out of danger.

I have been more fensible of the advantage of blistering in this than in any other disease. Blisters not only stimulate the folids to action, but likewise occasion a continual discharge, which may, in some measure, supply the want of critical evacuations, which seldom happen in this kind of sever. They are most proper, either towards the beginning, or after some degree of stupor has come on; in which last case, it will always be proper to blister the head.

If the patient is costive through the course of the disease, it will be necessary to procure a stool, by giving him every other day

a clyfter of milk and water, with a little fugar, to which may be added a fpoonful of common falt, if the above does not operate.

Should a violent loofeness come on, it may be checked by small suantities of Venice treacle or laudanum, giving the patient for

his ordinary drink the white decoction *.

A miliary cruption fometimes breaks out about the ninth or tenth day. As eruptions are often critical, great care should be taken not to retard Nature's operation in this particular. The eruption ought neither to be checked by bleeding nor other evacuations, nor pushed out by a hot regimen; but the patient should be supported by gentle cordials, as wine-whey, small negus, sago-gruel, with a little wine in it, and such-like. He ought not to be kept too warm; yet a kindly breathing sweat should by no means be checked.

Though blifters, and the use of cordial liquors are the chief things to be depended on in this kind of sever; yet, for those who may choose to use them, we shall mention one or two of the forms of medicine which are commonly prescribed in it.

In desperate cases, where the hickough and starting of the tendons have already come on, we have sometimes seen extraordinary effects from large doses of musk frequently repeated. Musk is doubtless an antispasmodic, and may be given to the quantity of a scruple three or four times a-day, or oftener if necessary. Sometimes it may be proper to add to the musk a few grains of camphire, and salt of hartshorn, as these tend to promote perspiration and the discharge of urine. Thus, sisten grains of musk, with three grains of camphire, and six grains of salt of hartshorn, may be made into a bolus with a little syrup, and given as above.

If the fever should happen to intermit, which it frequently does towards the decline, or if the patient's strength should be wasted with colliquative sweats, &c. it will be necessary to give him the Peruvian bark. Half a drachm, or a whole drachm if the stomach will bear it, of the bark in fine powder, may be given four or five times a-day in a glass of red port or claret. Should the bark in substance not sit easy on the stomach, an ounce of it in powder may be insused in a bottle of Lisbon or Rhenish wine for two or three days, afterwards it may be strained, and a glass of it taken frequently.

* See Appendix, White Decoction.

† When the patient is low, ten grains of Virginian snake root, and the same quantity of contrayerva-root, with five grains of Russian castor, all in fine powder, may be made into a bolus with a little of the cordial confection or syrup of saffron. One of these may be taken every four or sive hours.

The following powder may be need with the same intention: Take wild Valerian-root in powder one scruple, saffron and castor each four grains. Mix these by rubbing them together in a mortar, and give one

in a cup of wine-whey three or four times a-day.

† The bark may likewise be very properly administered, along with other cordials, in the following manner: Of bark an ounce, orange-peel half an ounce, Virginian snake-root two drachms, saffron one

Some give the bark in this and other fevers, where there are no fymptoms of inflammation, without any regard to the remission or intermission of the fever. How far future observation may tend to establish this practice, we will not pretend to say; but we have reason to believe that the bark is a very universal febrifuge, and that it may be administered with advantage in most fevers where bleeding is not necessary, or where there are no symptoms of topical inflammation.

CHAPTER XX.

Of the Malignant Putrid or Spotted Fever.

HIS may be called the peftilential fever of Europe, as, in many of its fymptoms, it bears a great refemblance to the plague. Persons of a lax habit, a melancholy disposition, and those whose vigour has been wasted by long fasting, watching, hard labour, excessive venery, frequent salivations, &c. are most liable to it.

CAUSES.—This fever is occasioned by foul air, from a number of people being confined in a narrow place, not properly ventilated; from putrid animal and vegetable effluvia, &c. Hence it prevails in camps, jails, hospitals, and infirmaries, especially where such places are too much crowded, and cleanliness is negleded.

A close conflitution of the air, with long rainy or foggy weather, likewise occasions these severs. They often succeed great inundations in low and marshy countries, especially when these are

preceded or followed by a hot and fultry feafon.

Living too much upon animal food, without a proper mixture of vegetables, or eating fish or slesh that has been kept too long, are apt to occasion this kind of fever. Sailors on long voyages, and the inhabitants of besieged cities, are very often visited with this difease.

Corn that has been greatly damaged by rainy feafons or long keeping, and water which has become putrid by stagnation, &c.

may likewife occasion this fever.

Dead carcases tainting the air, especially in hot seasons, are very apt to occasion these diseases. Hence, this kind of sever often prevails in countries which are the scenes of war and bloodshed. This shows the propriety of removing burying-grounds, slaughter-houses, &c. to a proper distance from great towns.

Want of cleanliness is a very general cause of these severs. Hence .

drachm. Let all of them be powdered, and infused in an English pint of the best brandy for three or four days. Afterwards the liquor may be strained, and two tea-spoonfuls of it given three or four times a day in a glass of small wine or negus.

they prevail amongst the poor inhabitants of large towns, who breathe a confined, unwholesome air, and neglect cleanliness. Such mechanics as carry on dirty employments, and are constantly confined within doors, are very liable to this disease.

We shall only add, that malignant, or spotted severs, are highly infectious, and often communicated by contagion. All persons ought to keep at a distance from those affected with such diseases,

unless their attendance is absolutely necessary.

SYMPTOMS.——The malignant fever is generally preceded by a remarkable weakness or loss of strength, without any apparent cause. This is sometimes so great, that the patient can starce walk, or even sit upright, without being in danger of fainting away. His mind too is greatly dejected; he sight, and is full of dreadful

apprehensions.

There is a naufea, and fometimes a vomiting of bile; a violent pain of the head, with a strong pullation or throbbing of the temporal arteries; the eyes often appear red and instanced, with a pain at the bottom of the orbit; there is a noise in the cars, the breathing is laborious, and often interrupted with a figh; the patient complains of a pain about the region of the stomach, and in his back and loins; his tongue is at first white, but afterwards it appears black and chaped; and his teeth are covered with a black crust. He sometimes passes worms both upwards and downwards, is affected with tremors or shaking, and often becomes delirious.

If blood is let, it appears disfolved, or with a very small degree of cohesion, and soon becomes putrid: the stools smell extremely sectid, and are sometimes of a greenish, black, or reddish east. Spots of a pale purple, dun, or black colour, often appear upon the skin, and sometimes there are violent hamorrhages, or dis-

charges of blood from the mouth, eyes, nofe, &e.

These severs may be distinguished from the inflammatory, by the smallness of the pulse, the great dejection of mind, the dissolved state of the blood, the petcehiæ, or purple spots, and the putrid smell of the excrements. They may likewise be distinguished from the low or nervous sever by the heat and thirst being greater, the urine of a higher colour, and the loss of strength, dejection of mind, and all the other symptoms, more violent.

Sometimes the inflammatory, nervous, and putrid fymptoms are fo blended together, as to render it very difficult to determine to which elass the fever belongs. In this case, the greatest eaution and skill are requisite. Attention must be paid to those symptoms which are most prevalent, and both the regimen and medicines adapted

to them.

Inflammatory and nervous fevers may be converted into malignant and putrid, by too hot a regimen or improper medicines.

The duration of putrid fevers is extremely uncertain; sometimes they terminate between the seventh and sourteenth day, and at other times they are prolonged for sive or six weeks. Their duration depends greatly upon the constitution of the patient, and the

manner of treating the disease.

The most favourable symptoms are, a gentle looseness after the fourth or fifth day, with a warm, mild sweat. These, when continued for a considerable time, often carry off the sever, and should never be imprudently stopped. Small miliary pustules appearing between the petechæ, or purple spots, are likewise savourable, as also hot scabby eruptions about the mouth and nose. It is a good sign when the pulse rises upon the use of wine, or other cordials, and the nervous symptoms abate; deasness coming on towards the decline of the sever, is often a favourable symptom*, as are abscesses in the groin or parotid glands.

Among the unfavourable fymptoms, may be reckoned an excessive looseness, with a hard swelled beliy; large black or livid blotches breaking out upon the skin; apthæ in the mouth; cold clammy sweats; blindness; change of the voice; a wild staring of the eyes; dissibility of swallowing; inability to put out the tongue; and a constant inclination to uncover the breast. When the sweat and saliva are tinged with blood, and the urine is black, or deposits a black footy sediment, the patient is in great danger. Starting of the tendons, and sætid, ichorous, involuntary stools, attended with coldness of the extremities, are generally the forerunners of death.

REGIMEN.——In the treatment of this difease, we ought to endeavour as far as possible, to support the patient's strength and spirits; and to assist Nature in expelling the cause of the disease, by gently promoting perspiration and the other evacuations.

Putrid fevers are often occasioned by unwholesome air, and of course they must be aggravated by it. Care should be taken to prevent air from stagnating in the patient's chamber, to keep it cool, and renew it frequently, by opening the doors or windows of some adjacent apartment. The breath and perspiration of persons in persuch thealth soon render the air of a small apartment noxious; but this will sooner happen from the perspiration and

breath of a person in this disease.

Besides the frequent admission of fresh air, we recommend the use of vinegar, verjuice, juice of lemon, Seville orange, or any vegetable acid that can be most readily obtained. These ought frequently to be sprinkled upon the sloor, the bed, and every part of the room. They may also be evaporated with a hot iron, or by boiling, &c. The fresh skins of lemons or oranges ought to be laid in different parts of the room, and should be frequently held to the patient's nose. The use of acids in this manner would prove very refreshing to the patient, and tend to prevent the insection from spreading among those who attend him. Strong scented herbs, as rue, tansy, rosemary, wormwood, &c. may be laid in dinerent parts of the house, and smelled to by those who go near the patient.

^{*} Deafness is not always a favourable symptom in this disease. Perhaps it is only so when occasioned by absectes formed within the ears-

The patient must be kept cool, quiet and easy. The least noise will affect his head, and the smallest fatigue will be apt to make him faint.

Few things are of greater importance in this disease than acids, which ought to be mixed with all the patient's food, as well as drink. Orange, lemon, or vinegar whey, are all very proper, and may be drank by turns, according to the patient's inclination. They may be rendered cordial by the addition of wine in such quantity as the patient's strength seems to require. When he is very low, he may drink negus, with only one half water, and sharpened with the juice of orange or lemon. In some cases, a glass of clear wine may now and then be allowed. The most proper wine is Rhenish; but if the body be open, red-port or claret is to be preferred.

When the body is bound, a tea-spoonful of the cream of tartar may be put into a cup of the patient's drink, as there is occasion; or he may drink a decoction of tamarinds, which will both quench

his thirst, and promote a discharge by stool.

If camomile-tea will fit upon his stomach, it is a very proper drink. It may be sharpened by adding to every cup of the tea ten

or fifteen drops of the elixir of vitriol.

The food must be light, as panado or groat gruel, to which a little wine may be added, if the patient be weak and low; and they ought all to be sharpened with the juice of orange, the jelly of currants, or the like. The patient ought likewise to eat freely of ripe fruits, as roasted apples, currant or gooseberry tarts, preserved cherries, or plumbs, &c.

Taking a little food or drink supports the spirits: for which reafon, the patient ought frequently to be sipping small quantities of some of the acid liquors mentioned above, or any that may be more

agreeable to his palate or more readily obtained.

If he is delirious, his feet and hands ought to be frequently fomented with a strong infusion of camomile flowers. This, or an infusion of the bark, to such as can afford it, cannot fail to have a good effect. Fomentations of this kind relieve the head, by relaxing the vessels in the extremities.

MEDICINE.——If a vomit be given at the beginning of this fever, it will hardly fail to have a good effect; but if the fever has gone on for fome days, and the symptoms are violent, vomits are not quite so fase. The body however is always to be kept gently

open by clysters, or mild laxative medicines.

Bleeding is feldom necessary in putrid fevers. If there be figns of an inflammation, it may sometimes be permitted at the first on-

fet; but the repetition of it generally proves hurtful.

Blisters are never to be used unless in the greatest extremities. If the petechiæ or spots should suddenly disappear, the patient's pulse sink remarkably, and a delirium, with other bad symptoms, come on, blistering may be permitted. In this case, blisters are to be applied to the head, and inside of the legs or thighs. But as they

are fometimes apt to occasion a gangrene, we would rather recommend warm cataplasms or poultices of mustard and vinegar to be applied to the feet, having recourse to blisters only in the utmost extremities. It is common in the beginning of this fever to give the emetic tartar in small doses, repeated every second or third hour, till it shall either vomit, purge, or throw the patient into a sweat. This practice is very proper, if not pushed so far as to weaken the patient.

A ridiculous notion has long prevailed, of expelling the poisonous matter of malignant diseases by trifling doses of cordial or alexipharmic medicines. In consequence of this notion, the contrayerva-root, the cordial confection, the mithridate, &c. have been extolled as infallible remedies. These seldom do much good. Where cordials are necessary, none is superior to good wine; and we again recommend it both as the safest and best. Wine acids and antiseptics are the only things to be relied on in the cure of malignant severs.

In the most dangerous species of this disease, when it is attended with purple, lived, or black spots, the Peruvian bark must be administered. I have seen it, when joined with acids, prove successful, even in cases where the petechiæ had the most threatening aspect. But, to answer this purpose, it must not only be given in

large doses, but duly perfifted in*.

The best method of administering the bark is certainly in substance. An ounce of it in powder may be mixed with half an English pint of water, and the same quantity of red wine, and sharpened with the clixir or the spirit of vitriol, which will both make it sit easier on the stomach, and render it more beneficial. Two or three ounces of the syrup of lemon may be added, and two table-spoonfuls of the mixture taken every two hours, or oftener, if the stomach is able to bear it. Those who cannot take the bark in substance may insufe it in wine, as recommended in the preceding disease. If there be a violent looseness, the bark must be boiled in red wine with a little cinnamon, and sharpened with the elixir of vitriol, as above. Nothing can be more beneficial in this kind of looseness than plenty of acids, and such things as promote a gentle perspiration.

If the patient be troubled with vomiting, a drachm of the falt of wormwood, dissolved in an ounce and an half of fresh lemon-juice, and made into a draught with an ounce of simple sinnamon water,

and a bit of fugar, may be given, as often as necessary.

If fwellings of the glands appear, their suppuration is to be promoted by the application of emollient poultices. As soon as there is any appearance of matter in them, they ought to be laid open, and the poultices continued.

^{*} In fevers of this type, accompanied with great proftration of ftrength, Madeira wine should be administered with an unsparing hand, beginning with small quantities, and gradually increasing from one to two bottles, in the course of twenty-four hours. (I. C.)

I have known large ulcerous fores break out in various parts of the body, in the decline of this fever, of a livid gangrenous appearance, and a most putrid cadaverous smell. These gradually healed; and the patient recovered by the plentiful use of bark and

wine, sharpened with the spirits of vitriol.

For preventing putrid fevers, we would recommend a ftrict regard to cleanliness; a dry fituation; sufficient exercise in the open air; wholesome food, and a moderate use of generous liquors. Infection ought above all things to be avoided. No constitution is proof against, it. I have known persons seized with a putrid sever, by only making a single visit to a patient in it; others have caught it by lodging for one night in a town where it prevailed; and some by attending the sunerals of such as died of it*.

When a putrid fever feizes any person in a samily, the greatest attention is necessary to prevent the disease from spreading. The sick ought to be placed in a large apartment, as remote from the rest of the samily as possible; to be kept extremely clean, and to have fresh air frequently let into his chamber; whatever comes from him should be immediately removed, his linen frequently changed, and those inhealthought to avoid all unnecessary communication with him.

Any one who is apprehensive of having caught the infection, ought immediately to take a vomit, and to work it off by drinking plentifully of camomile tea. This may be repeated in a day or two, if the apprehensions still continue, or any unfavourable symptoms appear. He ought likewife to take an infusion of the bark and camomile slowers for his ordinary drink; and before he goes to bed, he may drink an English pint of pretty strong negus, or a few glasses of generous wine. I have frequently followed this course, when malignant fevers prevailed, and have recommended it to others with constant success.

People generally fly to bleeding and purging as antidotes against infection; but these are so far from securing them, that they often,

by debilitating the body, increase the danger.

Those who wait upon the sick in this disease ought always to have a piece of spunge or a handkerchief dipt in vinegar, or juice of lemon, to smell to while near the patient. They ought to wash their hands, and, if possible, to change their clothes, before they go into company.

* The late Sir John Pringle expressed a concern less these cautions should prevent people from attending their friends or relations when afflicted with putrid severs. I told him I meant only to discourage unnecessary attendance, and mentioned a number of instances where putrid severs had proved fatal to persons who were rather hurtful than beneficial to the sick. He agreed with me, that a good dostor and a careful number were the only necessary attendants; and that all others not only endangered themselves, but, generally, by their solicitude and ill-directed care, burt the sick.

† These are prudent precautions, particularly cleanliness; as to most of the others, recommended by our judicious author, they seemed to

CHAPTER XXI.

Of the Miliary Fever.

THIS fever takes its name from the small pustules or bladders which appear on the skin, resembling, in shape and size, the seeds of millet. The pustules are either red or white, and fre-

quently both are mixed together.

The whole body is fometimes covered with pustules; but they are generally more numerous where the fweat is most abundant, as on the breast, the back, &c. A gentle fweat, or moisture on the skin, greatly promotes the eruption; but, when the skin is dry, the eruption is both more painful and dangerous.

Sometimes this is a primary disease; but it is much oftener only a symptom of some other malady, as the small-pox, measles, ardent, putrid, or nervous severs, &c. In all these cases it is generally the

effect of too hot a regimen or medicines.

The miliary fever chiefly attacks the idle and the phlegmatic, or perfons of a relaxed habit. The young and the aged are more liable to it than those in the vigour and prime of life. It is likewise more incident to women than men, especially the delicate and indolent, who keep continually within doors, and live upon weak watery diet. Such semales are extremely liable to be seized with this disease

in childbed, and often loofe their lives by it.

CAUSES.—The miliary fever is fometimes occasioned by violent passions or affections of the mind; as excessive grief, anxiety, thoughtfulness, &c. It may be occasioned by excessive watching, great evacuations, a weak watery diet, rainy seasons, eating too freely of cold, crude unripe fruits, as plums, cherries, cucumbers, melons, &c. Impure waters, or provisions which have been spolied by rainy seasons, long keeping, &c. may cause miliary severs. They may also be occasioned by the stoppage of any customary evacuation, as issues, setons, ulcers, the bleeding piles in men, or the menstrual flux in women, &c.

This difease in childbed-women is sometimes the effect of great costiveness during pregnancy; it may likewise be occasioned by their excessive use of green trash, and other unwholesome things, in which pregnant women are too apt to indulge. But its most general cause is indolence. Such women as lead a fedentary life, especially during pregnancy, and at the same time live grossly, can hardly escape this disease in childbed. Hence it proves extremely satal to women of fashion, and likewise to those women in manufacturing towns, who, in order to assist their husbands, sit close

have little or no effect during the late yellow fever, which provailed in Philadelphia. We believe the best preservative, if it could be attained, is a cheerful and undisturbed state of mind. (I. C.)

within doors for almost the whole of their time. But among women who are active and laborious, who live in the country, and take sufficient exercise without doors, this disease is very little known.

SYMPTOMS.——When this is a primary disease, it makes its attack like most other eruptive severs, with a slight shivering, which is succeeded by heat, loss of strength, faintishness, sighing, a low quick pulse, difficulty of breathing, with great anxiety and oppression of the breast. The patient is restless, and sometimes delirious; the tongue appears white, and the hands shake, with often a burning heat in the palms; in childbed-women the milk generally goes

away, and other discharges stop.

The patient feels an itching or pricking pain under the skin, after which innumerable small pustules of a red or white colour begin to appear. Upon this the symptoms generally abate, the pusse becomes more full and soft, the skin grows moister, and the sweat, as the disease advances, begins to have a peculiar fætid smell; the great load on the breast, and oppression of the spirits, generally go off, and the customary evacuations gradually return. About the sixth or seventh day from the eruption, the pustules begin to dry and fall off, which occasions a very disagreeable itching in the skin.

It is impossible to ascertain the exact time when the pustules will either appear or go off. They generally come out on the third or fourth day, when the eruption is critical; but when sympto-

matical, they may appear at any time of the disease.

Sometimes the pustules appear and vanish by turns. When that is the case, there is always danger; but when they go in all of a sudden, and do not appear again, the danger is very great.

In childbed-women the pustules are commonly at first filled with clear water, afterwards they grow yellowish. Sometimes they are interspersed with pustules of a red colour. When these only appear

the disease goes by the name of a rash.

REGIMEN.—In all eruptive fevers, of whatever kind, the chief point is to prevent the fudden disappearing of the pustules, and to promote their maturation. For this purpose the patient must be kept in such a temperature, as neither to push out the eruption too fast, nor to cause it to retreat prematurely. The diet and drink ought therefore to be in a moderate degree nourishing and cordial; but neither strong nor heating. The patient's chamber ought neither to be kept too hot nor cold; and he should not be too much covered with clothes. Above all, the mind is to be kept easy and cheerful. Nothing so certainly makes an eruption go in as fear, or the apprehension of danger.

The food must be weak chicken-broth with bread, panado, sago, or groat-gruel, &c. to a gill of which may be added a spoonful or two of wine, as the patient's strength requires, with a few grains of salt and a little sugar. Good apples roasted or boiled, with other

ripe fruits of an opening cooling nature, may be eaten.

The drink may be fuited to the state of the patient's strength and spirits. If these be pretty high, the drink ought to be weak; as water-gruel, balm-tea, or the decoction mentioned below*.

When the patient's spirits are low, and the eruption does not rife sufficiently, his drink must be a little more generous; as winewhey, or small negus, sharpened with the juice of orange or lemon, and made stronger or weaker as circumstances may require.

Sometimes the miliary fever approaches towards a putrid nature, in which case the patient's strength must be supported with generous cerdials, joined with acids; and, if the degree of putrescence be great, the bark must be given. If the head be much affected, the

body must be kept open by emollient clysters+.

MEDICINE.—If the food and drink be properly regulated, there will be little occasion for medicine in this disease. Should the eruption, however, not rise, or the spirits slag, it will be necessary to support the patient with cordials, and to apply blisters. The most proper cordial, in this case, is good wine, which may either be taken in the patient's food or drink; and if there be signs of putrescence, the bark and acids may be mixed with wine, as directed in the putrid sever.

Some recommend bliftering through the whole course of this disease; and where Nature slags, and the eruption comes and goes, it may be necessary to keep up a stimulus, by a continual succession of small blisters, but not above one at a time. If the pulse sinks remarkably, the pustules sall in, and the head is affected, it will be necessary to apply several blisters to the most sensible parts, as the

inside of the legs and thighs, &c.

* Take two ounces of the shavings of hartshorn, and the same quantity of sarsaparilla, boil them in two English quarts of water. To the strained decocion add a little white sugar, and let the patient take it for his ordinary drink.

† In the Commercium Literarium for the year 1735, we have the history of an epidemical miliary fever, which raged at Straburgh in the months of November, December, and January; from which we learn the necessity of a temperate regimen in this malady, and likewise that physicians are not always the first who discover the proper treatment of diseases. "This fever made terrible havock even among men of robust constitutions, and all medicine proved in vain. They were seized in an instant with shivering, yawning, stretching and pains in the back, succeeded by a most intense heat; at the same time there was a great loss of strength and appetite. On the seventh or ninth day the miliary eruptions appeared, or spots like slee bites, with great anxiety, a delirium, results since the disease, a clyster of her own accord, gave to a patient, in the height of the disease, a clyster of rain-water and butter without salt, and for his ordinary drink a quart of spring water, half a pint of generous wine, the juice of a lemon, and six ounces of the whitest sugar, gently boiled till a scum arose, and this with great success; for the belly was soon loosened, the grievous symptoms vanished, and the patient was restored to his senses, and snatched from the jaws of death." This practice was imitated by others with the like happy effects.

Bleeding is feldom necessary in this discase, and sometimes it does much hurt, as it weakens the patient, and depresses his spirits. It is never to be attempted unless by the advice of a physician. It has been customary to treat this discase in childbed-women by plentiful bleeding, and other evacuations, as if it were highly inflammatory. But this practice is generally very unsafe. Patients in this situation bear evacuations very ill. And indeed the discase seems often to be more of a putrid than of an inflammatory nature.

Though this fever is often occasioned in childbed-women by too hot a regimen, yet it would be dangerous to leave that off all of a sudden, and have recourse to a very cool regimen, and large evacuations. Supporting the patient's spirits, and promoting natural evacuations, is here much safer than having recourse to artificial ones; as these by sinking the spirits, seldom fail to increase the danger.

If the disease proves tedious, or the recovery slow, the bark may be taken in substance, or insufed in wine or water, as the patient

inclines.

The miliary fever, like other eruptive diseases, requires gentle purging, which should not be neglected as soon as the sever is

gone off, and the patient's strength will permit.

To prevent this difease, a pure dry air, sufficient exercise, and wholesome sood, are necessary. Pregnant women should guard against costiveness, and take daily as much exercise as they can bear, avoiding all green trashy fruits, and other unwholesome things; and when in childbed, they ought strictly to observe a cool regimen.

CHAPTER XXII.

Of the Remitting Fever.

THIS fever takes its name from a remission of the fyniptoms, which happens sometimes sooner, and sometimes later, but generally before the eighth day. The remission is commonly preceded by a gentle sweat, after which the patient seems greatly relieved, but in a few hours the sever returns. These remissions return at very irregular periods, and are sometimes of longer, sometimes of shorter duration; the nearer however that the sever approaches to a regular intermittent, the danger is the less.

CAUSES.—Remitting fevers prevail in low marshy countries abounding with wood and stagnating water; but they prove most fatal in places where great heat and moisture are combined, as in some parts of Africa, Bengal in the East Indies, &c. where remitting severs are generally of a putrid kind, and prove very statal. They are most frequent in close calm weather, especially after rainy seasons, great inundations, or the like. No age, sex, or constitution,

is exempted from the attack of this fever; but it chiefly feizes perfons of a relaxed habit, who live in low dirty habitations, breathe and impure stagnating air, take little exercise, and use unwholesome diet.

SYMPTOMS.—The first symptoms of this sever are generally yawning, stretching, pain, and giddiness in the head, with alternate sits of heat and cold. Sometimes the patient is affected with a delirium at the very first attack. There is a pain, and sometimes a swelling, about the region of the stomach, the tongue is white, the eyes and skin frequently appear yellow, and the patient is often assisted with bilious vomitings. The pulse is sometimes a little hard, but feldom full, and the blood, when let, rarely shows any signs of inflammation. Some patients are exceedingly costive, and others are atslicted with a very troublesome looseness.

It is impossible to describe all the symptoms of this discase, as they vary according to the situation, the season of the year, and the constitution of the patient. They may be greatly changed by the method of treatment, and by many other circumstances. Sometimes the bilious symptoms predominate, sometimes the nervous, and at other times the putrid. Nor is it uncommon to find a succession of each of these, or even a complication of them at the

fame time, in the same person.

REGIMEN.—The regimen must be adapted to the prevailing symptoms. When there are any signs of inflammation, the diet must be slender, and the drink weak and diluting. But when nervous or putrid symptoms occur, it will be necessary to support the patient with food and liquors of a more generous nature, such as are recommended in the immediately preceding severs. We must be very cautious in using things of a heating quality, as this sever is frequently changed into a continual by an hot regimen, and improper medicines.

Whatever the fymptoms are, the patient ought to be kept cool, quiet, and clean. His apartment, if possible, should be large, and frequently ventilated by letting in fresh air at the doors or windows. It ought to be sprinkled with vinegar, juice of lemon, or the like. His linen, bed-clothes, &c. should be frequently changed, and all his excrements immediately removed. These precautions are of more importance to the sick than practitioners are apt to imagine.

MEDICINE.—In order to cure this fever, we must endeavour to bring it to a regular intermission. This intention may be pro-

^{*} Dr. Lind, of Edinburgh, in his inaugural differtation concerning, the putrid remitting fever of Bengal, has the following observation: "The patient's him, bed-clothes, and bedding, ought frequently to be changed, and exposed to the air, and all his excrements immediately removed; the bed-chamber should be well ventilated, and frequently springled with vinegar; in mort, every attention should be paid to the patient. I can assume, that a physician who puts these in practice will much oftener succeed than one who is even more skilful, but has not opportunity as using these means."

moted by bleeding*, if there be any figns of inflammation; but when that is not the cafe, bleeding ought by no means to be attempted, as it will weaken the patient and prolong the difease. A vomit however will feldom be improper, and is generally of great fervice. Twenty or thirty grains of ipecacuanha will answer this purpose very well; but, where it can be obtained, we rather recommend a grain or two of tartar emetic, with five or fix grains of ipecacuanha, to be made into a draught and given for a vomit. This may be repeated once or twice at proper intervals, if the fickness or nausea continues.

The body ought to be kept open either by clysters or gentle laxatives, as weak infusions of senna and manna, small doses of the lenitive electuary, cream of tartar, tamarinds, stewed prunes, or the like; but all strong or drastic purgatives are to be carefully

avoided.

By this course, the sever, in a few days, may generally be brought to a pretty regular or distinct intermission, in which case the bark may be administered, and it will seldom fail to perfect the cure. It is needless here to repeat over again the methods of giving the bark.

The most likely way to avoid this fever is to use a wholesome and nourishing diet, to pay the most scrupulous attention to cleanliness, to keep the body warm, to take sufficient exercise, and in hot countries, to avoid damp situations, night air, evening dews, and the like. In countries where it is endemical, the best preventive medicine which we can recommend, is the Peruvian bark, which may either be chewed, or insused in brandy or wine, &c. Some recommend smoking tobacco as very beneficial in marshy countries, both for the prevention of this and intermitting severs.

CHAPTER XXIII.

Of the Yellow Fever.

that has appeared in North-America. A minute description, therefore, of its symptoms, and the most effectual method of cure, may be an acceptable chapter to this work. No particular variation from what appeared in Philadelphia in the summer and autumn of 1793, has since been discovered in its ravages in other popular cities on the continent of America; we therefore shall only detail the former, as being more generally destructive, and more within the reach of our immediate observations.

This yellow fever derives its appellation, from the yellow

^{*} Blisters should be applied to the arms or legs at an early period of this disease, as they have an evident good effect in procuring an intermission of the fever. [I. C.]

furfusion, that often appeared in the eyes and on the skin during the continuance of the disease. As it was not a general appearance, there may be an impropriety in the term. However, as it has been adopted, we will not contend for a word with those me-

dical gentlemen who agree with us in ideas.

Various causes have been suggested for this disease; some have supposed it to be indigenous, and the offspring of vegetable putrefaction; others, that it was imported from the West-Indies, and highly contagious in its nature. The latter of thefe opinions, is supported by more facts, and appears the most probable. In its previous vifitations in this country, which were in fix different periods, befides that of 1793, it was always traced to have been imported from the West-Indies. It visited Charleston, in South-Carolina, four times, according to the accurate Dr. Lining, viz. in 1732, 1739, 1745, and in 1748. It appears, also, from Dr. Lind*, that it was introduced in 1740, by a trunk of wearing apparel; and from the notes of Dr. Redman, it seems to have been brought to this city in 1762, by a mariner, who arrived fick. From that period, it was not observed in Philadelphia, till the aforementioned memorable year 1793. The 3d of August was the first day it was discovered; which was in Water-street, between Mulberry and Saffafras-Areets, at a boarding-house, generally frequented by feamen. Many of these people belonged to the zebec privateer Sans Culottes of Nantz, which had just entered the Delaware from a cruize, with the ship Flora, her prize. The voyage of these vessels, from every circumstance that could be collected, appears to have brought the difease indirectly from the West-Indies into this city, by exchanging part of her crew for that of the prize, who were from the West-India islands, where this disease was raging with violence.

The people most generally affected, were the native inhabitants of Philadelphia, or of fome or other parts of the continent of America. No condition or situation in life was exempted from its violence. The timid of both fexes, the most healthy, and those who feemed to have all the vigour of youth on their side, fell victims to it: No age scarcely escaped, from the child in the cradle up to confirmed manhood, and even from that to extreme old age. Women during gestation appeared to be generally susceptible of it. In these, it often produced abortion or miscarriage. It was, however, more fatal to the male than the female sex; but, the most cheerful, fearless and gay, of both sexes, often escaped it, as likewise ideots, and those who had been deranged in their minds.

^{*} Lind on infestion, page 293.

[†] Strangers from the West-India Islands were seldom attacked with this discale, and the negroes originally from the coast of Africa, were searcely ever assessed. But some of those of our own country sell a facrisice to its violence. (I. C.)

SYMPTOMS.—This difease most frequently attacked people in the course of the night, or early in the morning, with some degree of general lassitude, loss of appetite, disagreeable taste in the mouth, fudden prostration of strength, accompanied with universal p in and foreness over the body, particularly about the large joints. These were foon after succeeded by fome degree of chilness, or alternate chills and flushes of heat, but very feldom a complete rigor. During the continuance of this state, the face appeared pallid, the features contracted, the whole countenance exhibiting a dejected afpcct, with a corresponding state of mind. After this, there was perceived a flight pain in the fore or back part of the head, and frequently some degree of vertigo, with a fense of fatigue commonly about the loins, often extending towards the iliæ and pubes; together with an uneasy sensation between the shoulders and back of the neck. These symptoms hourly increased in violence, attended frequently with difagreeable eructations, naufea, and frequent retching to vomit, particularly after taking large draughts of warm or cool drinks, or upon motion of the body.

The eyes were generally highly fuffuled, exhibiting the appearance of a painted eye or one minutely injected, accompanied with a fenfation as if irritated by fand, and generally an avertion to light. This I have often observed to take place during the rigor, although generally at a more advanced period of the difease, or sometimes

not at all during the whole course of it.

After the rigor, the pulse generally became frequent, tense, and tolerably even; at other times soft and irregular, the heat mostly a little higher than the healthy standard. The state of the skin variable, sometimes moist, but generally dry; respiration a little more frequent than ordinary, attended with sighing and oppression at the præcordia, indicating great distress. These were observable even from the accession of the rigor; at other times not until a more advanced period.

The tongue was generally moist and white, especially in the middle, and red or of a purplish hue towards the edges and tip. The bowels were generally costive, but sometimes had a diarrhoea, urine of a higher colour than natural, and small in quantity.

As the evening approached, every fynnptom became aggravated, the pulse more frequent, sull and strong, heat considerably augmented, pain in the head and back excruciating; in the former, shooting from temple to temple, in the latter to the hips, and extending down the thighs; skin dry and parched, sometimes a partial moisture, particularly when the bed-clothes were increased, but without any abatement of the febrile symptoms.

The fickness and retching increased, with an ejection of frothy or bilious matter, or whatever fluid was last received into the stomach, accompanied with pain and foreness in the region of the stomach, upon the least pressure, with a sensation of incessant burning, and restlessness; so that no posture afforded any relief. During

the exacerbation, the respiration became more frequent, with an increase of fighing, and slight pain and throbbing in one or other of the hypochondriac regions, with strong beating in the most conspicuous arterial trunks. The face was very much slushed, and the features considerably distorted, with a slight hamorrhage from one

or both nostrils, and an increased sussuin of the eyes.

The intellectual faculties at times appeared confused, but feldom in a complete delirium. In the intervals of reason, the patient was very desponding, and under dreadful apprehensions for the event. He complained much of thirst, which was almost insatiable, for no foomer did any fluid reach the ftomach, than it was inflantly rejected with violence. Every morning the fymptoms fuffered fome abatement *, and the patient generally during the first twenty-four or forty-eight hours complained of light shivering, which became varied throughout the day, with viciflitudes of heat and partial moisture on the skin. He seemed much inclined to doze, from which he was very often awaked by frightful dreams; after which he generally became very watchful. As the difease proceeded, the tongue was very little altered from a state of health, except appearing in furrows, or chopped and of a bluish colour; at other times yellow or brown in the middle, and bluish at the edges and tip, but feldom dry. Stools, when procured, were generally fætid and frothy, but feldom bilious. The urine was variable, generally of a higher colour than natural. Some of these symptoms which marked the first stage, proceeded rapidly to increase, with a mitigation of others, and the rife of new ones, unless an intermission supervened on or before the fourth day, and the patient recovered. But most frequently, instead of this intermission, a mere composure of fymptoms only took place, which was too often fallacious. During this, the eyes and tkin fometimes became yellow, and the patient appeared to placed to the attendants, that they often thought him out of danger. But this treacherous tranquillity foon vanished, and the fecond stage commenced with a different train of symptoms, and with redoubled violence. The vigour which before was exceflive, now declined apace, and the disease put on a different complexion. The pain in the head and back, which was before exceftive, and almost intolerable, frequently abated on a sudden, and the fever allumed more and more the symptoms of the nervous kind; the pulse became less frequent, soft, and feeble, and sometimes even flower than in a state of health; the face much less shashed, the features more tranquil, with a deadly aspect of the countenance, or fometimes it was but little altered. The fuffusion of the eyes frequently increased; the heat became considerably

^{*} It may not be improper to observe, that for several weeks after the contag ous fever made its appearance in Philadelphia, internutting and reacting evers were met with at a short distance from the place where the manguant fever was spreading its ravages.

diminished, and in some eases, less than in a state of health; skin cool, fometimes with a clammy moisture on the face, neck, and back of the hands; the fickness at stomach increased with a burning fenfation in the region of it, and continual vomiting of frothy matter; at other times it was bilious, ftreaked with blood. In the female fex, if the menfes did not flow at their usual period, there was generally a quantity of blood brought up by vomiting, accompanied with violent stricture about the præcordia, and a sense of weight, with great flatulency in the stomach, and the intestines, which was very distressing; for they were generally costive, and had not energy fushcient to expct the wind either upwards or downwards. The tongue in this stage trembled much; and with respect to colour, it was variable; in the former, often nearly natural, at other times covered over with mucus verging towards black, particularly in the middle; fometimes dry, but generally moitt, and not unfrequently of a florid colour. It appeared as if rubbed over with the red particles of the blood, with deep furrows in it or chopped. When the patient was defired to put it out of the mouth, he would continue it until he was told to draw it in. The thirst was much augmented, with a continual dryness of the lips and fauces. The confusion of the intellects increased to a complete delirium; the restlessives became truly distressing, and the patient almost outrageous, and in some eases maniaeal.

The skin and eyes assumed a deep yellow colour, with the same appearance in the urine, which was small in quantity, and discharged with dissioulty. When the skin was not suffused, the urine was turbid, depositing a deep brown sediment. The respiration was slower than natural, except when the body was much agitated by the extreme restlessiness, accompanied with heavy sighing, and much debility in all the moving powers of the body. The patient generally lay on his back, with his feet drawn up towards his body; nevertheless, he had sufficient power, when urged by the call of Na-

ture, to rife from his bed.

In the decline of this stage, the skin was sometimes covered over with petechial eruptions, appearing like the stings of nettles, of a dark red colour, principally about the neck and breast, accompanied sometimes with homorrhages from different parts of the body; but these symptoms more particularly belong to the third and last stage. The duration of the second stage was various, generally according to the violence of the symptoms or to the duration and severity of the preceding stage. It seldom lasted longer than sifty or sixty hours before death took place, and sometimes without the occurrence of many of the symptoms of the last stage.

This stage generally commenced with the pulse becoming very feeble intermitting, and almost imperceptible at the wrist; frequently not more than thirty or thirty-sive strokes in a minute. There was also a great diminution of the heat of the whole body, except about the precordia, which seemed, if the expression may

be used, to be more tenacious of its heat than any other part of the bo-

dy, and was the last part that surrendered it up after death.

The skin became much cooler, and covered universally with a clammy moisture; the countenance exhibited a deadly aspect; the eyes less painful, but so dreadfully suffused, as sometimes almost to obliterate the colour of the tunica albuginea, with great twitching of the muscles of the face, and general startings of the tendons throughout the body. The petechize increased, and became of a purplish colour, between which the skin was of a deep yellow; great delirium, with continual restlessness succeeded. The patient lying principally on his back, the powers not being fufficient to retain him on his fides; the feet were generally drawn up, the whole body frequently fliding down in bed. The vomiting increased, and the matter ejected was of a dark colour, refembling coffee-grounds, fometimes mixed with blood*. The following were usual appearances; viz. great flatulency; hæmorrhagies from the different parts of the body; tongue frequently covered over with blood, and of a florid colour; at other times black and dry; urine very offensive; sometimes a total suppression of it, and when stools were procured, they were extremely black and fætid; livid ulcers in the mouth; and the parts where blifters had been applied, assumed a black aspect; laborious and deep respiration, with heavy sighing and great oppression at the præcordia; faultering in the speech; cold and livid extremities; involuntary discharges of the fæces; loss of swallowing; coma; eyes glazy. Startings and convultions frequently closed the scene.

These were the appearances of the malignant sever through its feveral stages. Although in its first attack it was frequently much varied. Sometimes the patients were seized of a sudden, at other times in the manner above described; but often, in its different ftages, it was much diverlified, according to the violence and duration of the fymptoms, to the age, fex, and constitution of the In some, the disease terminated in death, during the inflammatory period; in others, it was hurried fo precipitately through the stages, that they could hardly be discriminated by the most accurate observer, before the patient's fate was determined. In other cases, it passed with some degree of regularity, as above marked; and the diffolution or recovery, was protracted to an uncommon period. This was particularly the case in those people who laboured under a fevere falivation from the effects of mercury. In judging concerning the event of the malignant fever during its first stage, the danger was generally in proportion to the degree of inflammatory action. Of this an idea may be formed from

the violence and duration of the fymptoms.

^{*} From the experiments I have made on the black matter or vomit, it feemed to have fearce any of the properties of putrid bile or blood; but appeared to be a difeafed fecretion from the liver, possessing but little activity when applied in any form to an healthy human system. (I. C.)

The febrile affection, when very confiderable, was demonstrated by the violent pain in the head and back, great fusfusion of the face and eyes, with obvious distortion of the features; naufea and vomiting, with a sense of universal foreness, particularly in the limbs. The danger was then imminent.

When the inflammatory stage was of short duration and of great violence, accompanied with unusual quick respiration, heavy ighing, and great oppression at the precordia from the commencement, together with great restlessness, confusion of the intellects and deep despondency of mind, with a dread of speedy dissolution, they were to be considered as very unfavourable symptoms.

When very great profitration of fireigth, or a fpontaneous diarrhea, appeared after bleeding, without manifest relief to the patient, they were generally unfavourable fymptoms; indicating

danger in proportion to their violence.

Should a yellow tinge in the eyes and skin appear, which is merely an accidental circumstance, although it has been considered, by some of the tropical writers, as an unfavourable appearance; by others, as expressive of the crisis of the disease; my experience does not corroborate either the one or the other, but I am induced to consider it as a favourable, rather than an unfavourable occurrence. Should the retching and vomiting be much increased, with dark or cossee-coloured matter ejected, death generally ensued.

Fatality commonly happened on the fourth or fifth day; in some cases, on the twelfth, and even on the twenty-sourth and twenty-fifth day. But these patients, in addition to the disease, often had a severe falivation from the administration of large quantities of calomel during their indisposition. The falivary dis-

charge, in all probability, protracted life.

A favourable prognosis may be formed in this stage of the disease, from the febrile symptoms being more moderate, together with the absence of some of those before-mentioned ones, particularly the suffusion of the eyes, sighing and vomiting, especially if a slight homorrhapy takes place from the nostrils, with eruptions about the mouth, a slight cough, and an expectoration of yellowish matter, with bilious evacuations by stool, particularly if they assort relief to the patient, together with the formation of abscesses in different parts of the body. These are frequently attended with an abatement of almost every other symptom, and the patient recovers.

In the fecond stage: If the pulse became very feeble, small and intermitting,* with a considerable diminution of heat below the natural standard, excessive vomiting, with great burning in the region of the stomach, particularly if the matter ejected be black;

^{*} In elderly people, I have found the pulse intermitting in several cases, and they always recovered.

which was frequently the cafe, the patient had but a flort time to live.

There was little information to be acquired in any period of this difease, from the appearance of the urine, but when it was dark and fætid, the patient delirious, troubled much with slatulency, great suffusion of the eyes, a deadly aspect of the countenance, with vomiting of blood, which frequently occurred in the semale sex, when their menses did not slow at the usual period, and when it happened to women at the period of life when they become extremely irrregular, and generally cease to slow, the prognosis will be found very unsavourable. At that time of life, the system undergoes a very material change, being about to accommodate itself to a new mode of action. It is scarce ever able to withstand this, with the violence of so dreadful a disease.

When the tongue was florid, appearing as if rubbed over with the red particles of the blood, accompanied with a clammy moifture on the different parts of the body, refpiration laborious, with fighing and livid petechiæ generally spread over the skin, the parts where blisters were applied becoming of a dark colour, together with the posture of the patient's body indicating great debility, with difficulty in making water, although the pulse be at the same time tolerably even and strong, which is not unfrequently the case, they are marks of extreme danger.

A favourable prognosis in this stage, as well as in the preceding, does not depend on a solitary favourable symptom, but on several; therefore we should be guarded in giving an opinion.

If the pulse, from being extremely feeble, should acquire more strength, and the heat, which was before considerably diminished, becomes in general nearer the healthy standard, together with an abatement of the violent vomiting and burning sensation in the region of the stomach and praccordia, the brain less confused,* with a diminution of restlessiness and constitution of sighing, gradual disappearance of petechia, with an enlargement in and about the parotid glands, dissiguring much the natural form of the vitage, occurring particularly in children, sometimes in adults, the tongue becoming cleaner from the middle and point, towards the edges, the patient capable of lying in any position with tolerable facility, with incipient formation of abscesses in different parts of the body, and a slight return of appetite, although the skin and eyes be of a deep yellow colour, we may prognosticate with some degree of certainty, that the event will be saveurable.

In the last stage: This may be considered as only a deeper shade in the symptoms of the latter part of the second, with the addition of others, but replete with danger.

Nevertheless, with all the disagreeable symptoms of sighing, yel-

^{*} If the patient became manacal, the difrafe generally difrepreared, and they frequently recovered.

lownefs of the skin, delirium, black vomiting, livid ulcers in the mouth, sphacelation of blistered parts, bleedings from the nose and mouth, black tongue, and almost every other symptom that this stage can produce, excepting a remarkable feeble and intermitting pulse, I have seen several patients perfectly recover. The change generally took place for the better on the ninth or tenth day, on which the pulse became more full, strong and even, intellects less confused, tongue more florid from the middle towards the edges, heat general, and more equally dissufed, cessation of vomiting and hæmorrhagies, bowels more regular, with a slight return of appetite, and beginning absorption of the yellowness and petechiæ, with a capability in the patient of lying in any position, with increasing strength and complete recovery. These instances were very rare, though sew will deny their occurrence.

REGIMEN.—The patient should abstain from animal food; and when any thing is required, it should be gruel, panada, &c. He should use cool diluting drinks, such as barley-water, applewater, with small quantities of ripe fruits, which tend to keep the bowels open. The chamber of the fick should be spacious and airy, kept cool, and frequently sprinkled with vinegar. Great attention should be paid to these circumstances, as they are of infinite importance to those who frequent the apartments of the fick, and are

highly conducive to the cure of the difeafe.

MÉDICINE.——In the cure of the malignant fever, it appeared necessary; first, to moderate the inflammatory action: secondly, to remove or alleviate certain distressing symptoms which generally occurred, more or less, through the several stages of the disease: thirdly, to support the tone and vigour of the system.

The inflammatory action was most effectually moderated by the different classes of evacuants; among the most efficacious was

bleeding in the arm.

About the tenth of August, 1793, which was shortly after the disease made its appearance in Philadelphia, bleeding was not attended with fuccess, at least among the fick under my care; therefore, the practice was difcontinued; and I trusted, with most of my medical brethren, to the milder class of evacuants, until the 12th of September. Having found, on diffection, the stomach and inteftines highly inflamed, I refumed the practice of bleeding upon good grounds, and with evidently better effect. The quantity of blood to be taken away was regulated by the violence of the symptoms, age, fex, and habit of body; for those who were very corpulent did not bear evacuations near fo well as those of a spare make. No certain rule can be laid down, with respect to the quantity of blood to be taken. The attempt must be subject to considerable error; yet the number of ounces to be abstracted has been dictated by fome authors. Dr. Williams, of Jamaica, who wrote in 1750; advised plentiful bleeding. Dr. Hillary, of Barbadoes, bled once or twice during the first days of the dif-

case *. Dr. Mosely informs us, that bleeding should be perform-. ed and repeated every fix or eight hours, and if the symptoms be obstinate and do not abate, it should be executed even to faintingt. Dr. Blane observes, that if the patient had not a throbbing pulse, with violent pain in the head and back, it should not be performed; and that without the presence of those symptoms it was extremely dangerous. Dr. Warren, who had passed a considerable time in Barbadoes, feems much averfe to bleeding in any stage of this disease. Such are the different opinions of the tropical writers on this fubject. But during the prevalence of the malignant fever in Philadelphia, which nearly resembled that described under the appellation of the putrid bilious fever of the West-India idands, I was influenced in the abstraction of blood, by the tension and fulness of the pulse, the season of the year, and other circumstances previously observed, together with the abatement which the fick experienced of the fymptoms during the flowing of the blood. But it was very feldom that one bleeding, however profuse it may have been, would put an end to this disease; although the pains in the head and back were greatly mitigated. Yet they too often returned with additional violence. At this time, if the pulse continued full and tolerably tense, and the strength not much impaired, a sufficient quantity of blood may be taken away to procure an alleviation of the fymptoms. This should be repeated as often as they recur in the inflammatory stage of the disease; but it seldom appeared necessary to be done later than the end of the third day. When it was employed at a more advanced period, particularly near the time when the difeafe was passing into its second stage, it invariably increased the train of terrible fymptoms which mark this period, with a finking in the pulse that no human effort was able to support. The blood drawn in this flage of the difease, very seldom perfectly separated into the watery and groffer parts. When it did, the former was of a natural colour, though finall in quantity in proportion to the latter-The thicker part was generally of a florid arterial colour, tender in the course of the warm weather. As the cool weather advanced, and the difease became more inflammatory, it was fizy in some cases, with a proportionable degree of contraction of its superior circumference, exhibiting a cup-like appearance. Sometimes, during the warm weather, there was a thick tender fizy coat on its upper furface, without this cup-like appearance. When blood was drawn during the yellow fusiusion of the Stin, the thinner part was of a corresponding colour, yet not in the least bitter to the taste, that could be observed in a variety of instances; and was, like healthy ferum, affected by heat and acids. To return to the cure: At the same time that great attention was paid to bloodletting, other remedies were not neglected. Whatever contra-

buted to diminish the quantity of sluids in the system, and carried off the redundant matter in the first passages, was proportionably efficacious in diminishing the inflammatory action. Purges, and other evacuants, were employed, as being fecondarily the most powerful remedies, particularly when alternated with bleeding, which appeared to be the most judicious way of using them. Those preferred were such, on whose powerful action, reliance could be had, and when the stomach was fick, required but a small quantity to answer the purpose, at the same time being agreeable to the palate. Calomel possesses most of those properties, and under certain circumstances, could be administered with the greatest advantage. It should be given in large doses until it has the defired effect, and might be expedited in its operation by giving laxative clysters. When the functions of the stomach were not much deranged, which was sometimes the case, the saline purgatives were made use of, such as Glauber falt, which were powerful, less stimulating than the calomel, and of course, better antiphlogistics. These answered the purpose equally well, as the object was merely to reduce the energy of the fystem and carry of the bilious matter.

To relieve the violent pain in the head, blifters were employed, after general evacuation had been used as far as appeared advisble; but previous to their application to the neck, blood was drawn by cupping the part to be blittered. This mode of practice generally afforded confiderable relief.

Having taken notice of remedies suitable to the first indication, I come now to the second, viz. to alleviate or remove certain distressing symptoms; such as violent vomiting, costiveness, satulency, great restlessness and want of sleep, and also to the means used

to divert the despondency of the patient.

To moderate the excessive vomiting, often baffled every practitioner. Various means were employed to effect it; which may be divided into external and internal. Among the former, was bliftering the different parts of the body, particularly the region of the stomach. From repeated trials, it seemed to have but little influence on the latter. Blisters have been recommended to be applied to the legs by Dr. Hume, of Jamaica, from which he experienced very good effects. This practice appeared here only to torture the patient's feelings, without the least abatement of the vomiting. Warm bathing was employed in this stage of the difease, sometimes with a mitigation of the vomiting; yet frequently it increased the sickness at the slomach, and produced fainting. Flannels wrung out of a warm and strong infusion of aromatics, applied constantly to the region of the stomach, were foractimes ferviceable; but external applications feldom promifed much advantage.

With respect to internal remedies, almost every anti-emetic was employed, that the experience of physicians had found useful, but

frequently without having the defired effect; fuch as the faline mixture in the state of effervescence; the infusion of columbo root, cinnamon water with liquid laudanum; the peppermint julep with laudanum, as also barley-water, toast-water, apple-water, lemonade, camomile tea, and a variety of other drinks during the inflammatory period. After these, small doses of tincture of Peruvian bark, with spirit of lavender-compound, were administered with a good effect, paticularly when the fymptoms of violent inflammation of the stomach did not contra-indicate its use. It was especially ferviceable to fuch patients who had been accustomed to an irregular mode of life, and drank to excess of spirituous liquors; for, when every other article was immediately rejected, it generally continued on the stomach. The mucilaginous vitriolic mixture* was used to advantage, and fmall quantities of wine, porter, cyder, or brandy and water, was of fervice, by giving tone to the debilitated stomach.

Freth buttermilk was frequently found grateful to the fick, and very beneficial as an anti-emetic, even when from the symptoms, it might be concluded, that the stomach was highly inflamed. Likewife, a tea-spoonful of cream-tartar, dissolved in sugar and water, was known to stay on the stomach and pass through the bowels, when avery other medicine and drink was instantly rejected. This medicine was administered with a view to remove costiveness, which should always be guarded against in this difease; but the patient finding it to effectual in stopping vomiting, he frequently had recourse to it without being costive, with the same good effect. In feveral other cases it was made use of, but was too often instantly rejected. Castor-oil, administered under similar circumstances, had the like effect; but this was not often the case, although I have frequently known it to continue on the stomachs of people violently fea-fick, and remove costiveness, when drink of every kind was immediately thrown up. During excessive fickness at the stomach, the most agreeable medicine and drinks were kes frequently rejected than those of an unpleasant quality. No sooner did a draught of any liquid reach the stomach, than it was instantly rejected. It is not to be apprehended that this arose from the quality, but rather from the quantity. On this account, the patient should not take more than a table-spoonful at a time. His own feeling, with respect to fulness and fickness at the stomach, should determine the frequency and quantity of drink, however infatiably thirsty he may be. In conjunction with these precautions, the body should be kept as quiet as possible; for the least accelerated motion of it, frequently brought on a fit of vomiting.

Costiveness and slatulency were extremely distressing in this disease. To remove them was always very difficult, particularly when there was much sickness at the stomach, with vomiting; for

Which is muciliage of gum_arabic, acidulated with elixir of vitriol.

the intestines were frequently very sluggish in their action, and the stomach generally rejected every class of purgative medicines. When this was the cafe, there was no alternative but that of keeping the bowels open by clyfters. These were subject to considerable inconvenience, when they could be administered; but this was not often the case. They frequently cleared but the lower part of the intestines, whilst those approximating the stomach, were generally diftended with fæccs, and an inceffant fource of irritation to the stomach. Whenever, therefore, a chance of fuccess in the administration of purgative medicines occurred, they were always attempted. They generally cleared the whole tract of intestinal canal, and frequently procured a mitigation of the vomiting. If rejected, they were not frequently repeated, left they might exhaust the strength of the patient without contributing to his relief. Keeping the intestinal canal clear of faces, in some meafure, obviated flatulency. But in an advanced period of the difease, the stomach and intestines were so much debilitated, that they frequently had not energy sufficient, when apparently clear of fæces, to expel the wind either upwards or downwards, but it continued, as it were, stationary, and tormented the patient. During this state, when the stomach was tolerably tranquil, a strong infulion of fennel-feed was administered, mixed in a small quantity of brandy, with advantage, particularly when alternated with some agreeable tonic, such as the mucilaginous vitriolic mixture already recommended, if nothing contra-indicated its use, or a small quantity of a strong infusion of spices. They fometimes afforded relief; but those symptoms too frequently baffled every attempt to remove them.

Another circumstance was, the extreme restlessines and want of sleep. Generally, by quieting the former, the satigue from the long wakefulness will frequently induce the latter. This indication was most effectually answered by opium. The propriety of employing it, has engaged the attention of many of the tropical writers. By one it is much approved of;* by another it is condemned during the inslammatory period, as being highly stimulating and acrid. The use of it, says one, must be attended with imminent danger. In the subsequent stages, good effects have been experienced from the use of opium, particularly in the second and last stages of the disease. In the former it induced sleep, refreshing the patient, and enabling him, in some measure, to resist the extreme violence of the disease. In the latter, it afforded consolation by sulling the inquietude, and smoothing the avenue to death

To divert the gloomy thoughts of the patient, was attended with almost infurmountable difficulties. However, it should be always attempted by the most encouraging language and assurance of a complete recovery; for on this, the savourable termination of the disease much depends. The patient should not be

told that he has the yellow fever; for I have known a patient, in this disease, faint from an unguarded expression, and afterwards die apparently from a slight attack. No art could persuade him that his dissolution was not approaching with hasty speed. Therefore, greateircumspection should be observed, and the patient encouraged with as much consistency and boldness as possible. Most of the sick that were slightly indisposed, would seize the least dubious expressions.

fion of the phyfician, respecting their recovery. I come now to the third and last indication; which is, to support the finking tone and periffing vigour of the system. This indication is applicable to the fecond, but more particularly to the last stage of the disease. The latter, being an augmentation of the symptoms of the former, sometimes much diversified, requires more powerful remedies. Whenever a change was perceived in the fystem, indicating that debility was commencing, the nature of the disease must be considered as materially different, confequently requiring a particular mode of treatment. The patient should not be restricted to a vegetable diet or watery drinks, especially if there are no violent symptoms indicating inflammation of the stomach. Stimulants should be employed both external and internal, fuch as blifters to different parts of the body, in order to excite the fystem. The application, when deferred to a more advanced period, was rather of differvice; for the strength of the patient was fo far exhausted, that the blistered parts foon became black and sphacelated, sometimes attended with profuse hæmorrhagy. Their application was discontinued in the last stage of the disease. Washing the whole body in brandy and water, or when that could not be complied with, the face, breaft and hands, always proved very refreshing to the fick; cold water thrown over the head and shoulders, morning and evening, frequently had a good effect, by giving vigour to the fyftem. It likewife invariably induced fleep, with a gentle moisture on the skin. In addition to the external stimulants already mentioned, mustard poultices may be applied to the feet; and when there are no symptoms contra-indicating the use of internal remedies, fuch as violent symptoms of inflamination in the stomach, they should be administered; and one would imagine, from the declining vigour of the fystem, that bark and wine would be useful.* The former of which, in some cases, was serviceable, particularly when the functions of the stomach were not much deranged; but naufea and vomiting were fo invariably prefent, that in almost all ' cases, in whatever manner or form it was administered, it always, at least in my practice, proved detrimental+. This especially hap-

^{*} The intermittent and remittent fevers, mentioned in a note in the history of this difease, were cured by emetics and the bark; the latter continued very well on the stomach.

[†] Except to use it in small doses to quiet the perturbed stomach, given under the circumstances formerly mentioned.

pened, when the bark was given by the mouth. It commonly deranged the state of the stomach in such a manner, that it was not susceptible of retaining any other medicine or drink. When administered in the form of clysters, mixed with London porter and laudanum, it did not feem to have any good effect. They generally produced a painful fenfation over the whole abdomen. This was fometimes the case, even when a common laxative clyster was given, fo that the patient could fearcely retain it a moment. During the time bark was employed, wine was given, beginning with claret or any other weak wine; but if there was great defect in the vigour of the system, Madeira was soon sound necessary. If wine could not be taken by the patient, brandy, diluted with water, porter, or cycler, was fubilituted. These should be increafed in quantity, according to the state of the stomach and degree of feebleness in the pulse, at the same time the elixir of vitriol was employed as a tonic. The bark, the most powerful of all tonics, was found to difagree with the stomach, and was therefore always omitted, except during the convalescent state, and an entire dependence was placed in the medicine recommended, together with the wine or its substitute. These should be administered in large quanticies, and continued, until the pulse, from being small and finking, became full, round, and tolerably strong; the heat more equally diffused, the delirium abating, and the patient becoming more cheerful. Such were frequently the effects of those stimulants; and even when the strength appeared almost exhausted, they would revive and keep up the spark of life, and fometimes in the most deplorable cases, restore perfect health and vigour.

Great caution should be observed in the administration of wine. When the most urgent symptoms are mitigated, and some of them removed, the quantity may be gradually diminished. Should the dangerous symptoms return, it may be augmented with caution. This practice was more expedient if the patient could take some nourishment that was light and agreeable, such as panada, or gruel; or if there was a slight return of appetite, some preparation of animal food should be given, such as weak broth, and at times a few oysters, if the stomach would bear them. Great caution was to be observed in making use of solid food. If any is advisable, oysters certainly are the most proper, as they are the most easy of di-

gestion, and afford a sussicient quantity of nourishment.

It is proper to take notice of the conduct to be observed by the patient during the convalescent state. This was generally tedious. When the disease had been remedied by prosuse evacuations, the recovery was considerably protracted and precarious. The patient acquired strength but slowly, and sometimes had a tendency to the dropsy. During recovery, patients should be very circumspect in their conduct, for sear of a relapse of sever. They should choose food most casy of digestion; eat moderately; and

take a dose of bark, two or three times a-day, to affist digestion, and invigorate the debilitated system. A moderate quantity of wine may be allowed; gentle exercise should be conjoined, the bowels kept open, and the night-air avoided.

CHAPTER XXIV.

Of the Small-Pox.

HIS disease, which originally came from Arabia, is now become so general, that very sew escape it at one time of life or another. It is a most contagious malady; and has see many years

proved the scourge of Europa.

The finall-pox generally appears towards the fpring. They are frequent in fummer, lefs to in autumn, and leaft of all in winter. Children are most liable to this difease; and those whose food is unwholesome, who want proper exercise, and abound with gross humours, run the greatest hazard from it.

This disease is distinguished into the distinct and consuent kind; the latter of which is always attended with danger. There are likewise other distinctions of the small-pox; as the crystalline, the

bloody, &c.

CAUSES.—The finall-pox is commonly caught by infection. Since the difease was first brought into Europe, the infection has never been wholly extinguished, nor have any proper methods, as far as I know, been taken for that purpose; so that now it has become in a manner constitutional. Children who have over-heated themselves by running, wrestling, &c. or adults after a debauch, are

most apt to be seized with the finall-pox.

SYMP FOMS.—This disease is so generally known, that a minute description of it is unnecessary. Children commonly look a little dull, seem listless and drowsy for a few days before the more violent symptoms of the small-pox appear. They are more inclined to drink than usual, have little appetite for solid food, complain of weariness, and, upon taking exercise, are apt to sweat. These are succeeded by slight sits of cold and heat in turns, which, as the time of the eruption approaches, become more violent, and are accompanied with pains of the head and leins, vomiting, &c. The pulse is quick, with a great heat of the skin, and restless when the patient drops afteep, he wakes in a kind of horror, with a studen start, which is a very common symptom of the approaching eruption; as are also convulion-sits in very young children.

About the third or fourth day from the time of fickening, the finall-pox generally begin to appear; fometimes they appear fooner, but that is no favourable symptom. At first they very nearly resemble slea-bites, and are foonest discovered on the face, arms, and breast.

The most favourable symptoms are a slow eruption, and an abare-

ment of the fever as foon as the pustules appear. In the distinct kind of small-pox, the pustules seldom appear before the fourth day from the time of sickening, and they generally keep coming out gradually for several days after. Pustules which are distinct, with a florid red basis, and which fill with thick purulent matter, first of a whitish, and afterwards of a yellowish colour, are the best.

A livid brown colour of the puftules is an unfavourable fymptom; as also when they are small and flat, with black specks in the middle. Pustules which contain a thin watery ichor are very bad. A great number of pox on the face is always attended with danger. It is likewise a very bad sign when they run into one another.

It is a most unfavourable symptom when petechiæ, or purple, brown or black spots are interspersed among the pustules. These are figns of great danger. Bloody stools or urine, with a swelled belly, are bad symptoms; as is also a continual strangury. Pale urine and a violent throbbing of the arteries of the neck are figns of an approaching delirium, or of convultion-fits. When the face does not swell, or falls before the pox come to maturity, it is very unfavourable. If the face begins to fall about the eleventh or twelfth day, and, at the same time, the hands and feet begin to swell, the patient generally does well; but when thefe do not fucceed to each other, there is danger. The tongue covered with a brown crust is an unfavourable symptom. Cold shivering fits coming on at the height of the disease are likewise unfavourable. Grinding of the teeth, when it proceeds from an affection of the nervous fystem, is a bad sign; but sometimes it is occasioned by worms, or a diferdered stomach.

REGIMEN.—When the first symptoms of the small-pox appear, people are ready to be alarmed, and often sly to the use of medicine, to the great danger of the patient's life. I have known children to be bled, blistered and purged, during the sever which preceded the cruption of the small-pox, to such a degree, that Nature was not only disturbed in her operation, but rendered unable to support the pushules after they were out; so that the patient, exhausted by more evacuations, sunk under the disease.

When convultions appear, they give a dreadful alarm. Immediately fome noftrum is applied, as if this were a primary difease; whereas it is only a symptom, and far from being an unfavourable one, of the approaching cruption. As the fits generally go off before the actual appearance of the small-pox, it is attributed to the medicine, which by this means acquires a reputation without any merit*.

^{*} Convultion-fits are very alarming; but their effects are often falutary. They feem to be one of the means made use of by Nature, for breaking the force of a fever. I have always observed the sever abated, and sometimes quite removed, after one or more convultion-fits. This readily accounts for convulsions being a favourable symptom in the fever which precedes the eruption of the small-pox, as every thing that mitigates this fever leffens the eruption.

All that is, generally fpeaking, necessary, during the eruptive fever, is to keep the patient cool and easy, allowing him to drink freely of some weak diluting liquors; as balm-tea, barley-water, clear whey, gruels, &c. He should not be confined to bed, but should sit up as much as he is able, and should have his feet and legs frequently bathed in lukewarm water. His food ought to be very light; and he should be as little disturbed with company as possible. Much mischief is done at this period, by confining the patient too soon to his bed, and plying him with warm cordials or sudorific medicines. Every thing that heats and inslames the blood, increases the sever, and pushes out the pustules prematurely. This has numberless ill essects. It not only increases the number of pushules, but likewise tends to make them run into one another; and when they have been pushed out with too great violence, they generally fall in before they come to maturity.

Women, as foon as they fee the small-pox begin to appear, commonly ply their tender charge with cordials, sassion, and marigold-teas, wine, punch, and even brandy itself. All these are given with a view, as they term it, to throw out the eruption from the heart. This, like most other popular mistakes, is the abuse of a very just observation, that when there is a moissure on the skin, the pox rise better, and the patient is easier, than when it continues dry and parched. But that is no reason for forcing the patient into a sweat. Sweating never relieves unless where it comes spontaneously, or is the effect

of drinking weak diluting liquors.

Children are often so peevish, that they will not lie a-bed without a nurse constantly by them. Indulging them in this, has many bad effects both upon the nurse and child. Even the natural heat of the nurse augments the fever of the child; but if she, too, proves feverish, which is often the case, the danger must be increased*.

Lying feveral children, who have the small-pox, in the same bed, has many ill consequences. They ought, if possible, never to be in the same chamber, as the perspiration, the heat, the smell, &c. all tend to augument the sever, and to heighten the disease. It is common among the poor, to see two or three children lying in the same bed, with such a load of pusules, that even their skins stick together. One can hardly view a scene of this kind, without being sickened by the sight. But how must the effluvia affect the poor patients, many of whom perished by this usage+?

^{*}I have known a nurse, who had the small-pox before, so infected by lying constantly a-bed with a child, in a bad kind of small-pox, that she had not only a great number of pustules, which broke out all over her body, but afterwards a malignant fever, which terminated in a number of imposthumes or boils, and from which she narrowly escaped with her life. We mention this, to put others upon their guard against the danger of this virulent infection.

[†] This observation is likewise applicable to hospitals, work-houses, &c. where numbers of children happen to have the finall-pox at the same time. I have seen above forty children cooped up in one apartment,

A very dirty custom prevails among the lower class of people, or allowing children in the small-pox to keep on the same linen during the whole period of that loathsome disease. This is done, lest they should catch cold; but it has many ill consequences. The linen becomes hard by the moisture which it absorbs, and frets the tender skin. It occasions a bad smell, which is very pernicious both to the patient and those about him; besides, the silth and sordes, which adhere to the linen, being resorbed, or taken up again into the body, greatly augment the disease.

A patient should not be suffered to be dirty in an internal disease, far less in the small-pox. Cutaneous disorders are often occasioned by nastiness alone, and are always increased by it. Were the patient's linen to be changed every day, it would greatly refresh him. Care, indeed, is to be taken, that the linen be thoroughly dry. It ought likewise to be put on when the patient is most cool.

So strong is the vulgar prejudice in this country, notwithstanding all that has been said against the hot regimen in the small-pox, that numbers still sall a facrifice to that error. I have seen poor women travelling in the depth of winter, and carrying their children along with them in the small-pox, and have frequently observed others begging by the way-side, with infants in their arms covered with the pustules; yet I could never learn that one of these children died by this fort of treatment. This is certainly a sufficient proof of the safety, at least, of exposing patients in the small-pox to the open air. There can be no reason, however, for exposing them to public view. It is now very common in the environs of great towns to meet patients in the small-pox on the public walks. This pactice may suit the purposes of boasting inoculators, but is dangerous to the citizens, and contrary to the laws of humanity and sound policy.

The food in this disease ought to be very light, and of a cooling nature, as panado, or bread boiled with equal quantities of milk and water, good apples roasted or boiled with milk and sweetened with a little sugar, or such-like. The drink may be equal parts of milk and water, clear sweet whey, barley-water, or thin gruel, &c. After the pox are full, butter-milk, being of an opening and cleansing

nature, is a very proper drink.

MEDICINE.——This difference is generally divided into four different periods, viz. the fever which precedes the cruption, the cruption itself, the suppuration, or maturation of the pushules, and the secondary fever.

Little more is necessary, during the primary fever, than to keep

all the while they had this difease, without any of them being admitted to breathe the fresh air. No one can be at a loss to see the impropriety of such conduct. It ought to be a rule, not only in hespitals for the smallpox, but, likewise, for other diseases, that no patient should be within sight or hearing of another. This is a matter to which too little regard is paid. In most hospitals and infirmaries, the sick, the dying, and the dead, are often to be seen in the same apartment.

the patient cool and quiet, allowing him to drink diluting liquors, and bathing his fect frequently in warm water. Though this be generally the fafest course that can be taken with infants, yet aduits of a strong constitution and plethoric habit sometimes require bleeding. When a sull pulse, a dry skin, and other symptoms of inflammation render this operation necessary, it ought to be performed; but, unless these symptoms are urgent, it is safer to let it alone; if the body is bound, emollient clysters may be thrown in.

If there is a great nausea, or inclination to vomit, weak camomiletea, or lukewarm water may be drank, in order to clean the stomach. At the beginning of a fever, Nature generally attempts a discharge, either upwards or downwards, which, if promoted by gentle means,

would tend greatly to abate the violence of the difease.

Though every method is to be taken during the primary fever, by a cool regimen, &c. to prevent too great an eruption; yet, after the puttules have made their appearance, our bufiness is to promote the suppuration, by diluting drink, light food, and, if Nature seems to slag, by generous cordials. When a low, creeping pulse faintishness, and great loss of strength, render cordials necessary, we would recommend good wine, which may be made into negus, with an equal quantity of water, and sharpened with the juice of orange, the jelly of currants, or the like. Wine-whey, sharpened as above, is likewise a proper drink in this case; great care, however, must be taken not to overheat the patient by any of these things. This, instead of promoting, would retard the eruption.

The rifing of the small-pox is often prevented by the violence of the fever. In this case, the cool regimen is strictly to be observed. The patient's chamber must not only be kept cool, but he ought frequently to be taken out of bed, and to be lightly covered with

clothes while in it.

Excessive restlessives often prevents the rising and filling of the small-pox. When this happens, gentle opiates are necessary. These ought always to be administered with a sparing hand. To an infant, a tea-spoonful of the syrup of poppies may be given every sive or six hours till it has the desired effect. An adult will require

a table-spoonful to answer the same purpose.

If the patient be troubled with a strangury, or suppression of urine, which often happens in the small-pox, he should be frequently taken out of bed, and, if he be able, should walk across the room with his feet barc. When he cannot do this, he may be frequently fet on his knees in bed, and should endeavour to pass his urine as often as he can. When these do not succeed, a ten-spoonful of the sweet spirits of nitre may be occasionally mixed, with his drink. Nothing more certainly relieves the patient, or is more beneficial in the small-pox, than a plentiful discharge of urine.

If the mouth be foul, and the tongue dry and chopped, it ought to be frequently washed, and the throat gargled with water and

honey, tharpened with a little vinegar or current-jelly.

During the rifing of the small-pox, it frequently happens, that the patient is eight or ten days without a stool. This not only tends to heat and inslame the blood, but the faces, by lodging so long in the body, become acrid, and even putrid. From whence bad consequences must unfue. It will, therefore, be proper, when the body is bound, to throw in an emollient clyster every second or third day, through the whole course of the disease. This will greatly cool and

When petechiæ, or purple, black, or livid spots appear among the small-pox, the bark must immediately be administered in as large doses as the patient's stomach can bear. For a child, two drachms of the bark in powder may be mixed in three ounces of common water, one ounce of simple cinnamon-water, and two ounces of the syrup of orange or lemon. This may be sharpened with the spirits of vitriol, and a table-spoonful of it given every hour. If it be given to an adult in the same form, he may take at least three or four spoonfuls every hour. This medicine ought not to be trissed with, but must be administered as frequently as the stomach can bear it; in which case, it will often produce very happy essents. I have frequently seen the petechiæ disappear, and smallpox, which had a very threatening aspect, rise and fill with laudable matter, by the use of the bark and acids.

The patient's drink ought, in this case, to be generous; as wine or strong negus acidulated with spirits of vitriol, vinegar, the juice of lemon, jelly of currants, or such-like. His sood must consist of apples roasted or boiled, preserved cherries, plumbs, and other fruits

of an acid nature.

The bark and acids are not only necessary when the petechica appear, but likewise in the lymphatic or crystalline small-pox, where the matter is thin, and not duly prepared. The Peruvian bark seems to possess a singular power of affisting Nature in preparing good matter; consequently, it must be beneficial both in this and other diseases, where the crisis depends on a suppuration. I have often observed, where the small-pox were flat, and the matter contained in them quite clear and transparent, and where, at first, they had the appearance of running into one another, that the bark, acidulated as above, changed the colour and consistence of the matter, and produced the most happy effects.

When the cruption subsides suddenly, or when the small-pox sprike in, before they have arrived at maturity, the danger is very great. In this case, blisters must be immediately applied to the wrists and ancles, and the patient's sprints supported with cordials.

Sometimes bleeding has a furprifing effect in raifing the pushules after they have subsided; but it requires skill to know when this is proper, or to what length the patient can bear it. Sharp cataplasms, however, may be applied to the seet and hands, as they tend to promote the swelling of these parts.

The most dangerous period of this disease, is what we call the

fecondary fever. This generally comes on when the small-pox begin to blacken, or turn on the face; and most of those who die of

the fmall-pox, are carried off by this fever.

Nature generally attempts, at the turn of the small-pox, to relieve the patient by loose stools. Her endeavours, this way, are by no means to be counteracted, but promoted, and the patient, at the same time, supported by food and drink of a nourishing and cordianature.

If, at the approach of the feeondary fever, the pulse be very quick, hard and strong, the heat intense, and the breathing laborious, with other symptoms of an inflammation of the breast, the patient must immediately be bled. The quantity of blood to be let, must be regulated by the patient's strength, age, and the urgency of the symptoms.

But, in the secondary fever, if the patient be faintish, the puttules become suddenly pale, and if there be great coldness of the extremities, blisters must be applied, and the patient must be supported with generous cordials. Wine, and even spirits, have some-

times been given, in fuel eases, with amazing suecess.

As the feeondary fever is, in great measure, if not wholly, owing to the absorption of the matter, it would feem highly confonant to reason, that the pustules, as soon as they come to maturity, should be opened. This is every day practifed in other phlegmons which tend to suppuration; and there seems to be no cause why it should be less proper here. On the contrary, we have reason to believe, that, by this means, the secondary sever might always be lessened, and often wholly prevented.

The puftules should be opened when they begin to turn of a yellow colour. Very little art is necessary for this operation. They may either be opened with a lancet or a needle, and the matter absorbed by a little dry lint. As the pustules are generally first ripe on the face, it will be proper to begin with opening these, and the others in course as they become ripe. The pustules generally fill again, a second or even a third time; for which cause, the operation must be repeated, or rather continued as long as there is any

confiderable appearance of matter in the pultules.

This operation, rational as it is, has been neglected from a piece of mistaken tenderness in parents. They believe that it must give great pain to the poor child; and, therefore, would rather see it die than have it thus tortured. This notion is entirely without foundation. I have frequently opened the pustules, when the patient did not see me, without his being in the least sensible of it; but, suppose it where attended with a little pain, that is nothing is comparison to the advantages which arise from it.

Opening the pustules not only prevents the resorption of the matter into the blood, but likewise takes off the tension of the skin, and, by that means, greatly relieves the patient. It likewise tends to prevent the pitting, which is a matter of no small importance.

Acrid matter, by lodging long in the puftules, cannot fail to corrode the tender skin; by which, many a handsome sace becomes so deformed as hardly to bear a resemblance to the human figure*.

It is generally necessary, after the small-pox are gone off, to purge the patient. If, however, the body has been open through the whole course of the disease, or if butter-milk and other things of an opening nature have been drank freely after the height of the small-pox, purging becomes less necessary; but it ought never wholly to be

neglected.

For very young children, an infusion of senna and prunes, with a little rhubarb, may be sweetened with coarse sugar, and given in small quantities till it operates. Those who are farther advanced, must take medicines of a sharper nature. For example; a child of five or six years of age may take eight or ten grains of jalap over night, and the same quantity of jalap in powder next morning. This may be wrought off with fresh broth or water-gruel, and may be repeated three or four times, sive or six days intervening between each dose. For children surther advanced, and adults, the dose must be increased in proportion to the age and constitution.

When imposshumes happen after the small-pox, which is not feldom the case, they must be brought to suppuration as soon as possible, by means of emollient poultices; and when they have been opened, or have broke of their own accord, the patient must be purged. The bark and a milk-diet will be useful in this case.

When a cough, a difficulty of breathing, or other symptoms of a consumption, succeed to the small-pox, the patient must be sent to a place where the air is good, and put upon a course of assessmilk, with such exercise as he can bear. For further directions in this case, see the article Consumptions.

Of Inoculation.

TO THE PARTY OF TH

THOUGH no difease, after it is formed, baffles the powers of medicine more effectually than the small-pox, yet more may be done before-hand, to render this disease favourable, than any one we know; as almost all the danger from it may be prevented by inoculation. This falutary invention has been known in Europe above

- * Though this operation can never do harm, yet it is only necessary when the patient has a greet load of small-pox, or when the matter which they contain is of so thin and acrid a nature, that there is reason to apprehend bad consequences from its being too quickly resorbed, or taken up again into the mass of circulating humours.
- † I have of late been accustomed, after the small-pox, to give one, two, three, four, or five grains of calomel, according to the age of the patient, over night, and to work it off next morning with a suitable dose of jalap.

half a century; but, like most other useful discoveries, it has till of late made but slow progress. To the honour of this country, inoculation has met with a more favourable reception here, than among any of our neighbours. It is still, however, far from being general, which we have reason to fear will be the case, as long as the practice continues in the hands of the faculty.

No discovery can be of general utility, while the practice of it is kept in the hands of a few. Had the inoculation of the small-pox been introduced as a fashion, and not as a medical discovery, or had it been practifed by the same kind of operators here, as it is in those countries from whence we learned it, it had long ago been universal. The fears, jealousies, prejudices, and opposite interests of the faculty, are, and ever will be, the most essectual obstacles to the progress of any salutary discovery. Hence, inoculation never became, in any measure, general, even in England, till taken up by men not bred to physic. These have not only rendered the practice more extensive, but more safe, and by acting under less restraint than regular practitioners, have taught them that the patient's greatest danger arose, not from the want of care, but the excess of it.

They know very little of the matter, who impute the fuccess of modern inoculators to any superior skill, either in preparing the patient or communicating the disease. Some of them, indeed, from a fordid desire of engrossing the whole practice to themselves, pretend to have extraordinary secrets or nostrums for preparing persons for inoculation, which never fail of success. But this is only a pretence to blind the ignorant. Common sense and prudence alone are sufficient both in the choice of the subject and management of the operation. Whoever is possessed of these, may person this office for his children, whenever he finds it convenient, if they be in a good state of health.

This fentiment is not the refult of theory, but of observation. Though few physicians have had more opportunities of trying inoculation in all its different forms, so little appears to me to depend on those, generally reckoned important circumstances, of preparing the body, communicating the insection by this or the other method, &c. that, for several years past, I have persuaded the parents or nurses, to perform the whole themselves, and have found that method followed with equal success, while it is free from any inconveniences that attend the other.*

^{*} A critical fituation, too often to be met with, first put me upon trying this method. A gentleman who had lost all his children, except one fon, by the natural finall-pox, was determined to have him inoculated. He told me his intention, and defired I would persuade the mother and grandmother, &cc. of its propriety. But that was impossible. They were not to be persuaded; and either could not get the better of their fears, or were determined against conviction. It was always a point with me, not to perform the operation without the consent of the parties concerned. I therefore advised the father, after giving his son a dose or two of rhubarb, to go to a patient who had the small-pox of a good kind,

The small-pox may be communicated in a great variety of way, with nearly the same degree of safety and success. In Turkey, from whence we learned the practice, the women communicate the disease to children, by opening a bit of the skin with a needle, and putting into the wound a little matter taken from a ripe postule. On the coast of Barbary, they pass a thread wet with the matter through the skin, between the thumb and fore-singer; and, in some of the states of Barbary, inoculation is performed by rubbing in the variolous matter between the thumb and fore-singer, or on other parts of the body. Rubbing the variolous matter upon the skin, has been long known in many parts of Asia and Europe, as well as in Barbary, and has generally gone by the name of buying the small-pox.

The prefent method of inoculating in Britain,* is to make two or three flanting incisions in the arm, so superficial as not to pierce quite through the skin, with a lancet wet with fresh matter taken from a ripe pussule; afterwards, the wounds are closed up, and left without any dressing. Some make use of a lancet covered with the dry matter; but this is less certain, and ought never to be used unless where fresh matter cannot be obtained; when this is the case, the matter ought to be moistened by holding the lan-

cet for some time in the steam of warm water.

Indeed, if fresh matter be applied long enough to the skin, there is no occasion for any wound at all. Let a bit of thread, about half an inch long, wet with the matter, be applied to the arm, mid-way between the shoulder and elbow, covered with a piece of common sticking plaister, and kept on for eight or ten day. This will feldom fail to communicate the disease. We mention this method, because many people are afraid of a wound; and, doubtless, the more easily the operation can be performed, it has the greater chance to become general. Some imagine, that the discharge from a wound lessens the eruption; but there is no great stress to be laid upon this notion; besides, deep wounds often ulcerate, and become troublesome.

We do not find that inoculation is confidered as a medical operation in those countries from whence we learned it. In Turkey, it is performed by the women, and, in the East-Indies, by the

to open two or three of the pullules, taking up the matter with a little cotton, and, as foon as he came home, to take his fon apart, and give his arm a flight feratch with a pla, afterwards to rub the place well with the cotton, and take no farther notice of it. All this he pun@nally performed; and, at the ufual period, the finall-pox made their appearance, which were of an exceeding good kind, and so mild, as not to confine the boy an hour to his bed. None of the other relations knew but the disease had come in the natural way, till the boy was well.

^{*} The method practifed in America, differs only in the number of incisions: we find, that the matter inserted by one, is generally sufficient to produce the defired effect, without the trouble and inconvenience of three. (I. C.)

Brachmins. In this country, the custom is still in its infancy; we make no doubt, but it will soon become so familiar, that parents will think no more of inoculating their children, than at pre-

fent they do of hiving them a purge.

No fet of men have it so much in their power to render the practice of inoculation general, as the clergy, the greatest oppofition to it fill arifing from some scruples of conscience, which they alone can remove. I would recommend it to them not only to endeavour to remove the religious objections which weak minds may have to this falutary practice, but to enjoin it as a duty, and to point out the danger of neglecting to make use of a mean which Providence has put in our power for faving the lives of our offs; ing. Surely, such parents as wilfully neglect the means of faving their children's lives, are as guilty as those who put them to death. I wish this matter were duly weighed. No one is more ready to make allowance for human weakness and religious prejudices; yet I cannot help recommending it, in the warmest manner, to parents, to confider how great an injury they do their children, by neglecting to give them this difease in the early period of life.

The numerous advantages arising from the inoculation of the fmall-pox, have been pretty fully pointed out by the learned Dr. M'Kenzie, in his History of Health.* To those mentioned by

* "Many and great," fays this humane author, "are the dangers attending the natural infection, from all which the innoculation is quite The natural infection may invade weak or diftempered bodies, by no means disposed for its kindly reception. It may attack them at a season of the year either violently het or intensely cold. It may be communicated from a fort of small-pox impregnated with the utmost virulence. It may lay hold of people unexpectedly, when a dangerous fort is impredently imported into a maritime place. It may surprise us foon after excelles committed in luxury, intemperance, or lewdness. It may likewise seize on the innocent after indispensible watchings, hard labour, or necessary journies. And is it a trivial advantage, that all these unhappy circumstances can be prevented by inoculation? By inoculation, numbers are faved from deformity as well as from death. In the natural finall-pox, how often are the finest features, and the most beautiful complexions miferably disfigured? Whereas, inoculation rarely leaves any ugly marks or fears, even where the number of puftules on the face has been very confiderable, and the fymptoins by no means favourable. And many other grievous complaints, that are frequently fubsequent to the natural fort, seldom follow the artificial. Does not inoculation also prevent those inexpressible terrors, that perpetually harrass persons who never had this disease, infomuch, that when the small pox is epidemical, entire villages are depopulated, markets ruined, and the face of distress spread over the whole country? From this terror it arises, that justice is frequently postponed, or discouraged, at seffions or affizes where the finali-pox rages. Witneffes and juries dare not appear; and by reason of the necessary absence of some gentlemen, our honourable and useful judges are not attended with that reverence and splendour due to their office and merit. Does not inoculation, in like manner, prevent our brave sailors from being seized with this distemper on shipboard, where they must quickly spread the infection among such

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him, we shall only add, that such as have not had the small-pox in the early period of life, are not only rendered unhappy, but likewife, in a great measure, unfit for fultaining many of the most useful and important stations. Few people would choose even to hire a fervant who had not had the finall-pox, far less to purchase a flave who had the chance of dying of this difease. How could a physician or a furgeon, who never had the finall-pox himself, attend others under that malady? How deplorable is the fitua. tion of females, who arrive at mature age without having had the fmall-pox! A woman with-child feldom furvives this difease: and if an infant happen to be feized with the small-pox upon the mother's breast, who has not had the disease herself, the scene must be diffreffing! If the continue to fuckle the child, it is the peril of her own life; and if the wean it, in all probability, it will perish. How often is the affectionate mother forced to leave her house, and abandon her children, at the very time when her care is most necessary? Yet should parental affection get the better of her fears, the confequences would often prove fatal. I have known the mother and her infant laid in the same grave, both victims to this malady. Let parents who run-away with their children, to avoid the small-pox, or who refuse to inoculate them in infancy, confider to what deplorable fituations they may be reduced by this mistaken tenderness!

As the small-pox is now become an epidemical disease in most parts of the known world, no other choice remains, but to render the malady as mild as possible. This is the only manner of extrapation now lest in our power; and though it may seem paradoxical, the artificial method of communicating the disease, could it be rendered universal, would amount to nearly the same thing as rooting it out. It is a matter of small consequence whether a disease be entirely extirpated, or rendered so mild as neither to destroy life nor hurt the constitution; but that this may be done by inoculation, does not now admit of a doubt. The numbers who die under inoculation hardly deserve to be named. In the natural way, one in four or five generally dies; but by inoculation not one of a thousand. Nay, some can boast of having inoculated ten thousand without the loss of a single patient.

I have often wished to see some plan established for rendering this falutary practice universal. The difficulties are many; yet the thing is by no means impracticable. The aim is great; no less than saving the lives of one-fourth part of mankind. What

of the crew who never had it before, and where they have scarce any chance to escape, being half stifled with the closeness of their cabins, and but very indifferently nursed? Lastly, with regard to the foldiery, the miseries attending these poor creatures, when attacked by the small-pox on a march, are inconceivable—without attendance, without lodgings, without any accommodation; so that one of three commonly perishes."

eught not to be attempted in order to accomplish so desirable an

The first step towards rendering the practice universal, must be to remove the religious prejudices against it. This can only be done by the clergy. They must not only recommend it as a duty to others, but likewise practise it on their own children. Example will ever have more influence than precept.

The next thing requisite is, to put it in the power of all. For this purpose, let the faculty inoculate the children of the poor gratis. It is hard that so useful a part of mankind should, by their

poverty, be excluded from fuch a benefit.

Should this fail, it is furely in the power of any state to render the practice general, at least as far as their dominion extends. We do not mean that it ought to be ensorced by a law. The best way to promote it, would be, to employ a sufficient number of operators at the public expense, to inoculate the children of the poor. This would only be necessary till the practice became general; afterwards, custom, the strongest of all laws, would oblige every individual to inoculate his children to prevent reslections.

It may be objected to this fcheme, that the poor would refuse to employ the inoculators; this difficulty is easily removed. A small premium to enable mothers to attend their children while under this difease, would be a sufficient inducement; besides, the success attending the operation would foon banish all objections to it. Even considerations of profit would induce the poor to embrace this plan. They often bring up their children to the age of ten or twelve, and when they come to be useful, they are snatched away by this malady, to the great loss of their parents, and detriment of the public.

The British legislature has, of late years, shown great attention to the preservation of infant lives, by supporting the foundling hospital, &c. But if one-tenth part of the sums laid out in supporting that institution, had been bestowed towards promoting inoculation of the small-pox among the poor, not only more useful lives had been saved, but the practice ere now rendered quite universal in this island. It is not to be imagined, what effect example and a little money will have upon the poor; yet, if left to themselves, they would go on for-ever in the old way, without thinking of any improvement. We only mean this as a hint to the humane and public-spirited: Should such a scheme be approved, a proper plan might easily be laid down for the execution of it.

But as public plans are very difficult to being about, and often, by the felfish views and misconduct of those intrusted with the execution of them, sail of answering the noble purposes for which they were designed; we shall point out some other method by which the benefits of inoculation may be extended to the poor. There is no doubt but inoculators will daily become more numerous. We would therefore have every parish in Britain to allow

one of them a small annual falary for inoculating all the children of the parish at a proper age. This might be done at a very trifling expense, and it would enable every one to enjoy the benefit

of this falutary invention.

Two things chiefly operate to prevent the progress of inoculation. The one is a wish to put the coil day as far off as possible. This is a principle in our nature; and as inoculation seems rather to be anticipating a future evil, mankind are averse to it. But this objection is sufficiently answered by the success. Who in his senses would not prefer a lesser coil to-day, to a greater to-morrow, provided they were equally certain?

The other obstacle is the sear of resections. This has very great weight with the bulk of mankind. Should the child die, they think the world would blame them. This they cannot bear. Here lies the difficulty; and till that be removed, inoculation will make but small progress. Nothing, however, can remove it but custom. Make the practice fashionable, and all objections will soon vanish. It is fashion alone that has led the multitude since the beginning of the world, and will lead them to the end. We must, therefore, call upon the more enlightened part of mankind to set a pattern to the rest. Their example, though it may for some time meet with opposition, will at length prevail.

I am aware of an objection to this practice from the expense with which it may be attended: this is easily obviated. We do not mean that every parish ought to employ a Sutton or a Dimsdale as inoculators. These have by their success already recommended themselves to crowned heads, and are beyond the vulgar reach; but have not others an equal chance to succeed? They certainly have. Let them make the same trial, and the difficulties will soon vanish. There is not a parish, and hardly a village in Britain, destitute of some person who can bleed. But this is a far more difficult operation, and requires more still and dexterity than inoculation.

The perfons to whom we would chiefly recommend the performance of this operation are the clergy. Most of them know something of medicine. Almost all of them bleed, and can order a purge which are all the qualifications necessary for the practice of inoculation. The priests among the less enlightened Indians perform this office; and why should a Christian teacher think himself above it? Surely, the bodies of men, as well as their souls, merit a part of the pastor's care; at least the greatest Teacher who ever appeared among men seems to have thought so.

Should all other methods fail, we would recommend it to parents to perform the operation themselves. Let them take any method of communicating the disease they please; provided the subjects be healthy, and of a proper age, they will seldom fail to succeed to their wish. I have known many instances of mothers performing the operation, and never so much as heard of one bad consequence. A planter, in one of the West-India islands, is said.

to have inoculated, with his own hand, in one year, three hundred of his flaves; who, notwithflanding the warmth of the climate, and other unfavourable circumstances, all did well. Common mechanics have often, to my knowledge, performed the operation with as good fuccess as physicians. We do not mean to discourage those who have it in their power, from employing people of skill to inoculate their children, and attend them while under the disease; but only to show, that where such cannot be had, the operation

ought not upon that account to be neglected.

Instead of multiplying arguments to recommend this practice, I shall just beg leave to mention the method which I took with my own fon, then an only child. After giving him two gentle purges, I ordered the nurse to take a bit of thread, which had been previously wet with fresh matter from a pock, and to by it upon his arm, covering it with a piece of sticking-plaister. This remained on fix or feven days, till it was rubbed off by accident. At the usual time, the small-pox made their appearance, and were exceedingly favourable. Surely, this, which is all that is generally necesfary, may be done without any skill in medicine.

We have been the more full upon this fubject, because the benefits of inoculation cannot be extended to fociety by any other means than making the practice general. While it is confined to a few, it must prove hurtful to the whole. By means of it, the contagion is fpread, and is communicated to many who might otherwise never have had the difeafe. Accordingly, it is found, that more die of the finall-pox now, than before inoculation was introduced; and this important discovery, by which alone more lives might be faved than by all the endeavours of the faculty, is in a great measure lost by its benefits not being extended to thewhole community.*

The fpring and autumn have been usually reckoned the most proper seasons for inoculation, on account of the weather being then most temperate; but it ought to be considered that these are generally the most unhealthy feasons of the whole year. Undoubtedly, the best preparation for the disease is a previous good state of health. I have always observed, that children, in particular, are more fickly towards the end of spring and autumn, than at any other time of the year. On this account, as well as for the advantage of cool air, I would propose winter as the most proper season for inoculation; though, on every other confideration, the spring would feem to be preferable.

The most proper age for inoculation is between three and five. Many approve of inoculating on the breast, and where no circumstances forbid this practice, I have no objection to it. Children, however, are more liable to convultions at this time than after-

By a well-laid plan for extending inoculation, more lives might be faved at a finall expence, than are at prefer preferved by all the helpitals in England, which cost the public fuch an amazing fun.

wards; befides, the anxiety of the mother or nurse, should the child be in danger, would not fail to heighten it by spoiling the milk.

Children who have constitutional diseases, must nevertheless be inoculated. It will often mend the habit of body; but ought to be performed at a time when they are most healthy. Accidental diseases should always be removed before inoculation.

It is generally thought necessary to regulate the diet for some time before the disease be communicated. In children, however, great alteration in diet is seldom necessary, their food being commonly of the most simple and wholesome kind, as milk, water-pap, weak broths, bread light-pudding, mild roots, and white meats.

But children who have been accustomed to a hotter diet, who are of gross habir, ought to be put upon a spare diet before they are inoculated. Their food should be of a light cooling nature, and

their drink whey, butter-milk, and fuch-like.

We recommend no other medical preparation but two or three mild purges, which ought to be fuited to the age and strength of the patient. The success of inoculators does not depend on the preparation of their patients, but on their management of them while under the disease. Their constant care is to keep them cool, and their bodies gently open, by which means the sever is kept low, and the cruption greatly lessend. The danger is seldom great when the pustules are few; and their number is generally in proportion to the sever which precedes and attends the cruption.—Hence, the chief secret of inoculation consists in regulating the cruptive sever, which generally may be kept sufficiently low by the methods mentioned above.

The regimen during the disease is in all respects the same as under the natural small-pox. The patient must be kept cool, his diet should be light, and his drink weak and distuting, &c. Should any bad symptoms appear, which is seldom the case, they must be treated in the same way as directed in the natural small-pox. Purging is not less necessary after the small-pox, by inoculation than in the natural way, and ought by no means to be neglected.

CHAPTER XXV.

Of the Chicken-Pox.

ple. It never affects the patient more than once in his life; and then it appears fo trifling as feldom to require the affiftance of a physician. The chicken-pox is a contagious diferse, and is generally caught by coming within the infected atmosphere of the patient or from the clothes of those who have been visiting the sick.

SYMPTOMS.—This difease comes on with moderate symptoms of sever, which generally on the second day is followed by an cruption of red pimples over the whole body. They are soon filled with a thin whitith fluid, which sometimes assumes a yellow colour, with a light instanced base, but the sluid contained in the pushules has not the property of pus or matter. After the cruption is on the skin, the sever subsides, and, in three or sour days, the pustules dry, become of a brown colour, and scale off.

It is a matter of the most serious importance, to distinguish this disease from the small-pox, as sometimes the most dangerous confequences have ensued from the mistake. Children have been seized with the small-pox and have died, when their parents thought

they had past through the disease.

This difease may be distinguished from the small pox, first, by the eruptive sever being more moderate and of shorter duration. Secondly, by the pustules generally containing matter of the colour of milk. Thirdly, by the pustules silling quicker and continuing a shorter time on the skin, at farthest not more than sour or sive days, before they become dry, of a brown colour, and scale off.

MEDICINE.—The treatment of this disease should be, by cooling regimen, similar to that used in the small-pox. This must be more particularly attended to, if the symptoms of sever should, be considerable, which is rarely the case. After they empty, and become dry, the patient must be purged with jalop and cream-tartar,

CHAPTER XXVI.

Of the Measles.

HE measles appeared in Europe about the same time with the small-pox, and have a great assinity to that disease. They both came from the same quarter of the world, are both infectious, and seldom attack the same person more than once. The measles are most common in the spring season, and generally disappear in summer. The disease itself, when properly managed, seldom proves satal; but its consequences are often very troublesome.

CÂUSE.—This discase, like the small-pox, proceeds from insection, and is more or less dangerous, according to the constitution of the patient, the scason of the year, the climate, &c.

SYMPTOMS.—The measles, like other fevers, are preceded by alternate fits of heat and cold, with fickness, and loss of appetite. The tongue is white, but generally moist. There is a short cough, a heaviness of the head and eyes, drowsiness, and a running at the nose. Sometimes, indeed, the cough does not come before the eruption has appeared. There is an inflammation and heat in the eyes, with a defluxion of sharp rheum, and great acutoness of sensation; so that they cannot bear the light without pain.

The eye-lids frequently fwell so as to occasion blindness. The patient generally complains of his throat; and a vomiting or looseness often precedes the eruption. The stools in children are commonly greenish; they complain of an itching of the skin, and are remarkably peevish. Bleeding at the nose is common, both before and in the progress of the disease.

About the fourth day, fmall spots, resembling slea-bites, appear, first upon the face, then upon the breast, and afterwards on the extremities: these may be distinguished from the small-pox by their scarcely rising above the skin. The sever, cough, and dissiculty of breathing, instead of being removed by the eruption as in the small-pox, are rather increased: but the vomiting generally ceases.

About the fixthor feventh day from the time of fickening, the meafles begin to turn pale on the face, and afterwards upon the body; fo that by the ninth day they entirely difappear. The fever, however, and difficulty of breathing, often continue, especially if the patient has been kept upon too hot a regimen. Petechiæ, or purple spots, may likewise be occasioned by this error. A violent looseness fometimes succeeds the measles; in which case, the patient's life is in imminent danger.

Such as die of the meastes generally expire about the ninth day from the invasion, and are commonly carried off by a peripueumony, or inflammation of the lungs. The most favourable symptoms are, a moderate looseness, a moit skin, and a plentiful dischare of urine.

When the cruption fuddenly ralis in, and the patient is feized with a delirium, he is in the greatest danger. If the measles turn too foon of a pale colour, it is an unfavourable symptom, as are also great weakness, vomiting, restlesshess, and difficulty of swallowing. Purple or black spots appearing among the measles are very unfavourable. When a continual cough, with hoarseness, succeeds the disease, there is reason to suspect an approaching consumption of the lungs.

Our business in this disease is to affist Nature, by proper cordials, in throwing out the eruption, if her efforts be too languid; but when they are too violent, they must be strained by evacuations, and cool diluting liquors, &c. We ought likewise to endeavour to appeare the most urgent symptoms, as the cough, restlessiness, and

difficulty of breathing.

REGIMEN.—The cool regimen is necessary here as well as in the small-pox. The food must be light, and the drink diluting. Acids do not answer so well in the measles as in the small-pox, as they tend to exasperate the cough. Small beer, though a good drink in the small-pox, is here improper. The most suitable liquors are decoctions of liquorice with marsh-mallow roots and sarsparilla, insusions of linseed, or of the slowers of elder, balm-tea, clarified whey, barley-water and such-like. These, if the patient be costive, may be sweetened with honey; or, if that should disagree with the stomach, a little manna may occasionally be added to them.

MEDICINE.—The measses being an inflammatory disease, without any critical discharge of matter, as in the small-pox, bleeding is commonly necessary, especially when the sever runs high, with disticulty of breathing, and great oppression of the breast. But if the disease be of a mild kind, bleeding may be omitted.

Bathing the feet and legs frequently in lukewarm water, both tends to abate the violence of the fever, and to promote the eruption.

The patient is often greatly relieved by vomiting. When there is a tendency this way, it ought to be promoted by drinking lukewarm water, or weak camomile-tea.

When the cough is very troublesome, with dryness of the throat, and difficulty of breathing, the patient may hold his head over the

steam of warm water, and draw the steam into his lungs.

He may likewife lick a little fpermaceti and fugar-candy pounded together; or take now-and-then, a fpoonful of the oil of fweet almonds, with fugar-candy diffolved in it. These will soften the throat, and relieve the tickling cough.

If, at the turn of the disease, the sever assumes new vigour, and there appears great danger of suffication, the patient must be bled according to his strength, and blisters applied, with a view to prevent the load from being thrown on the lungs; where, if an instantation should fix itself, the patient's life will be in imminent danger.

In case the measles suddenly disappear, it will be necessary to pursue the same method recommended when the small-pox recede. The patient must be supported with wine and cordials. Blisters must be applied to the legs and arms, and the body rubbed all over with warm slannels. Warm poultices may likewise be applied to the seet and palms of the hands.

When purple or black fpots appear, the patient's drink should be sharpened with spirits of vitriol; and, if the symptoms increase, the bark must be administered in the same manner, as directed in

the finall-pox+.

Opiates are sometimes necessary, but should never be given except in cases of extreme restlessiness, a violent looseness, or when the cough is very troublesome. For children, the syrup of poppies is sufficient. A tea-spoonful or two may be occasionally given, according to the patient's age, or the violence of the symptoms.

After the measles are gone off, the patient ought to be purged. This may be conducted in the same manner as directed in the

mall-pox.

If a violent loofeness succeeds the measles, it may be checked by taking for some days a gentle dose of rhubarb in the morning, and

^{*} I do not know any difease wherein bleeding is more necessary than in the measses, especially when the sever runs high: in this case, I have always found it relieve the patient.

[†] Wine should be allowed the patient, to co-operate with the bark, in supporting the vigour of the system. This should be the practice in all cases when there is a tendency, as it is commonly called, to putrefaction. (I.C.)

an opiate over night; but if these do not remove it, bleeding will seldom fail to have that effect.

Patients recovering after the measses should be careful what they eat or drink. Their food for some time ought to be light, and in small quantities, their drink diluting, and rather of an opening nature, as butter-milk, whey, and such-like. They ought also to beware of exposing themselves too soon to the cold air, lest a suffocating catarrh, an assume or a consumption of the lungs should ensue.

Should a cough, with a difficulty of breathing, and other fymptoms of a confumption, remain after the measles, fmall quantities of blood may be frequently let, at proper intervals, as the patient's strength and constitution will permit. He ought to drink assesmilk, to remove to a free air, if in a large town, and to ride daily on horseback. He must keep close to a diet of milk and vegetables; and if these do not succeed, let him remove to a warmer climate*.

Of the Scarlet Fever.

THE fearlet fever is so called from the colour of the patient's skin, which appears as if tinged with red wine. It happens at any season of the year, but is most common towards the end of summer; when it often seizes whole families. Children and young persons are most subject to it.

It begins, like other fevers, with coldness and shiverings, without any violent sickness. Afterwards the skin is covered with red spots, which are broader, more storid, and less uniform than the measles. They continue two or three days, and then disappear; after which

the cuticle, or scarf-skin, falls off.

There is feldom any occasion for medicine in this disease. The patient ought however to keep within doors, to abstain from flesh,

Attempts have been made to communicate the measles, as well as the small-pox, by inoculation; and we make no doubt, but in time, the practice may succeed. Dr. Home of his dinburgh, says, he communicated the disease by the blood. Others have tried this method, and have not found it succeed. Some think the disease would be more certainly communicated, by rubbing the skin of a patient, who has the measles, with cotton, and afterwards applying the cotton to a wound, as in the small-pox; while others recommend a bit of slanned which had been applied to the patient's skin, all the time of the disease, to be afterwards laid upon the arm or leg of the person to whom the infection is to be communicated. There is no doubt, but this disease, as well as the small-pox, may be communicated in various ways; the most probable, however, is either from cotton rubbed upon the skin, as mentioned above, or by introducing a little of the sharp humour, which distils from the eyes of the patient into the blood. It is agreed on all hands, that such patients as have been inoculated, had the disease very mildly; we therefore wish the practice were more general, as the measles have of late become very fatal.

ftrong liquors, and cordials, and to drink freely of cool diluting liquors. If the fever runs high, the body must be kept gently open by emollient clysters, or cream of tartar and nitre, one or two drachms of the former, with eight or ten grains of the latter, may be taken two or three times a day.

Children and young persons are sometimes seized at the beginning of this disease with a kind of stupor and epileptic sits. In this case, the seet and legs should be bathed in warm water*, a large blister applied to the neck, and a dose of the syrup of poppies given

every night till the patient recovers.

The fearlet fever is not always fo mild. It is sometimes attended with putrid or malignant symptoms, in which case, it is always dangerous. In the malignant scarlet sever the patient is not only affected with coldness and shivering, but with languor, sickness, and great oppression; to these succeed excessive heat, nausea and vomiting, with a foreness of the throat; the pulse is extremely quick, but small and depressed; the breathing frequent and laborious; the skin hot, but not quite dry; the tongue moist, and covered with a whitish mucus; the tonsils inslamed and ulcerated. When the eruption appears, it brings no relief; on the contrary, the symptoms generally grow worse, and fresh ones come on, as purging, delirium, &c.

When this disease is mistaken for a simple inflammation, and treated with repeated bleedings, purging and cooling medicines, it generally proves statal. The only medicines that can be depended on in this case are cordials and antiseptics, as the bark, wine, snakeroot, and the like. The treatment must be in general similar to

that of the malignant ulcerous fore throat+.

Of the Bilious Fever.

WHEN a continual, remitting, or intermitting fever is accompanied with a frequent or copious evacuation of bile, either by vomit or flool, the fever is denominated bilious. In Britain, the bilious fever generally makes its appearance about the end of fummer, and ceases towards the approach of winter. It is most frequent and fatal in warm countries, especially where the soil is marshy, and

* If the pulse be full and hard, blood must be taken from the arm or jugular vein. (I. C_{\star})

[†] In the year 1774, during winter, a very bad species of this sever prevailed in Edinburgh. It raged chiefly among young people. The eruption was generally accompanied with a quinkey, and the inflammatory symptoms were so blended with others of a putrid nature, as to render the treatment of the disease very difficult. Many of the patients, towards the decline of the fever, were assisted with large swellings of the submaxillary glands, and not a few had a suppuration in one or both ears.

when great rains are fucceeded by fultry heats. Perfons who work without doors, lie in camps, or who are exposed to the night air,

are most liable to this kind of fever.

If there are fymptoms of inflammation at the beginning of this fever, it will be necessary to bleed, and to put the patient upon the cool diluting regimen recommended in the inflammatory fever. The faline draught may be frequently administered, and the patient's body kept open by clysters or mild purgatives. But if the fever should remit or intermit, bleeding will feldom be necessary. In this case, a vomit may be administered, and, if the body be bound, agentle purge; after which the bark will generally complete the cure.

In case of a violent looseness, the patient must be supported with chicken broth, jellies of hartshorn, and the like; and he may use the white decoction for his ordinary drink*. If a bloody slux should accompany this fever, it must be treated as recommended under

the article Dysentery.

When there is a burning heat, and the patient does not fweat, that evacuation may be promoted by giving him, three or four time's a day, a table-spoonful of Mindererus's spirit mixed in a cup of his ordinary drink.

If the bilious fever be attended with the nervous, malignant, or putrid fymptoms, which is fometimes the case, the patient must be treated in the same manner as directed under these diseases.

After this fever, proper care is necessary to prevent a relapse. For this purpose, the patient, especially towards the end of autumn, ought to continue the use of the bark for some-time after he is well. He should abstain from all trashy fruits, new liquors, and every kind of flatulent aliment.

CHAPTER XXVII.

Of the Erysipelas, or St. Anthony's Fire.

HIS disease, which in some parts of Britain is called the rose, attacks persons at any period of life, but is most common between the age of thirty and sorty. Persons of a songuine or plethoric habit, are most liable to it. It often attacks young people, and pregnant women; and such as have once been afflicted with it, are very liable to have it again. Sometimes it is a primary disease, and at other times only a symptom of some other malady. Every part of the body is liable to be attacked by an erysipelas, but it most frequently seizes the legs or sace, especially the latter. It is most common in autumn, or when hot weather is succeeded by cold and wet.

^{*} See Appendix, White Decoction.
† See Appendix, Spirit of Mindererus.

CAUSES.—The erysipelas may be occasioned by violent patitions or affections of the mind; as fear, anger, &c. When the body has been heated to a great degree, and is immediately exposed to the cold air, so that the perspiration is suddenly checked, an erysipelas will often ensue*. It may also be occasioned by drinking to excess, by continuing too long in a warm bath, or by any thing that overheats the blood. If any of the natural evacuations be obstructed, or in too small quantity, it may cause an erysipelas. The same effect will follow from the stoppage of artificial evacuations; as issues, fetons, or the like.

SYMPTOMS.—The eryfipelas attacks with shivering, thirst, loss of strength, pain in the head and back, heat, restlessness, a quick pulse, vomiting, and sometimes a delirium. On the second, third, or fourth day, the part swells, becomes red, and small pushules ap-

pear; at which time the fever generally abutes.

When the erysipelas seizes the foot, the parts contiguous swell, the skin shines; and, if the pain be violent, it will ascend to the

leg, and will not bear to be touched.

When it attacks the face, it swells, appears red, and the skin is covered with small pustules filled with clear water. One, or both eyes are generally closed with the swelling; and there is a disficulty of breathing. If the mouth and nostrils be very dry, and the patient drowfy, there is reason to suspect an inflammation of the brain.

If the eryfipelas affects the breast, it swells and becomes exceedingly hard, with great pain, and is apt to suppurate. There is a violent pain in the arm-pit, on the side affected, where an abscess is of-

ten formed.

If in a day or two, the swelling subsides, the heat and pain abate, the colour of the part turns yellow, and the cuticle breaks and falls

off in scales, the danger is over.

When the eryfipelas is large, deep, and affects a very fentible part of the body, the danger is great. If the red colour changes into a livid or black, it will end in a mortification. Sometimes the inflammation cannot be discussed, but comes to a suppuration; in which case, fishulas, gangrene, or mortification, often ensue.

Such as die of this difeate, are commonly carried off by the fever, which is attended with difficulty of breathing, and fometimes with a delirium and great drowfiness. They generally die about the fe-

venth or eighth day.

REGIMEN.—In the eryfipelas the patient must neither be kept too hot nor too cold, as either of these extremes will tend to

^{*} The country people in many ports of Br tain call this difease a blast, and imagine it p occeds from foul air, or ill wind, as they term it. The tru h is, they o ten lie down to red them, when warm and fatigued, upon the damp ground, where they fall asleep, and lie so long as to catch colo, which occasions the ersippelas. This difease may indeed proceed from other causes, but nine times out of ten it is occasioned by cold caught after the body has been greatly heated or fatigued.

make it retreat, which is always to be guarded against. When the disease is mild, it will be sufficient to keep the patient within doors, without confining him to his bed, and to promote the perspiration

by diluting liquors, &c.

The diet ought to be flender, and of a moderately cooling and moistening quality, as groat-gruel, panado, chicken or barley-broth, with cooling herbs and fruits, &c. avoiding flesh, fish, strong drink, spices, pickles, and all other things that may heat and inslame the blood; the drink may be barley-water, an insusion of elder-flowers, common whey, and such like.

But if the pulse be low, and the spirits sunk, the patient must be supported with negus, and other things of a cordial nature. His food may be sago gruel, with a little wine, and nourishing broths, taken in small quantities, and often repeated. Great care must be

taken not to overheat him.

MEDICINE——In this disease much mischief is often done by medicine, especially by external applications. People, when they fee an inflammation, immediately think that fomething ought to be applied to it. I his indeed is necessary in large phlegmons; but in an erysipelas, the safer course is to apply nothing: Almost all ointments, falves, and plasters, being of a greafy nature, tend rather to obstruct and repel, than promote and discharge from the part. At the beginning of this disease, it is neither safe to promote a suppuration, nor to repel the matter too quickly. The erysipelas in many respects resembles the gont, and is to be treated with the greatest caution. Fine wool, or very soft flannel, are the safest applications to the part. These not only defend it from the external air, but likewise promote the perspiration, which has a great tendency to carry off the difeafe. In Scotland, the common people generally apply a mealy cloth to the parts affected, which is not improper.

It is common to bleed in the eryfipelas; but this requires caution. If the fever be high, the pulse hard and strong, and the patient vigorous, it will be proper to bleed; but the quantity must be regulated by these circumstances, and the operation repeated as the symptoms may require. If the patient has been accustomed to strong liquors, and the disease attacks his head, bleeding is abso-

lutely necessary.

Bathing the feet and legs frequently in lukewarm water, when the disease attacks the face or brain, has an excellent effect. It tends to make a derivation from the head, and seldom fails to relieve the patient. When bathing proves ineffectual, poultices, or sharp synapisms, may be applied to the soles of the feet, for the same purpose.

In cases where bleeding is requisite, it is likewise necessary to keep the body open. This may be effected by emollient clysters, or small doses of nitre and cream of tartar. Some recommend very large doses of nitre in the cryspelas; but mitre seldom sits easy on

the stomach, when taken in large doses. It is one of the best medicines when the sever and inflammation run high. Half a drachm of it, with one or two drachms of cream of tartar, may be given in

the patients ordinary drink, four times a day.

When the eryfipelas leaves the extremities, and feizes the head, fo as to occasion a delirium or stupor, it is absolutely necessary to open the body. If clysters and mild purgatives sail to have this effect, stronger ones must be given. Blisters must likewise be applied to the neck, or behind the ears, and sharp cataplasms laid to the soles of the feet.

When the inflammation cannot be discussed, and the part has a tendency to ulcerate, it will then be proper to promote suppuration, which may be done by the application of emollient poultices, such as bread and milk, or those made with flaxseed flower.

When the black, livid, or blue colour of the part shows a tendency to mortification, the bark must be administered. It may be taken along with acids, as recommended in the small pox, or in any other form, more agreeable to the patient. It must not however be trisled with, as the patient's life is at stake. A drachm may be given every two hours, if the symptoms be threatening, and cloths dipped in warm camphorated spirits of wine, of the tincture of myrrh and aloes, may be applied to the part, and frequently renewed. It may likewise be proper in this case to apply poultices of the bark, or to foment the part affected with a strong decoction of it.

In what is commonly called the fcorbutic erysipelas, which conformues at confiderable time, it will only be necessary to give gentle laxatives. and such things as promote the perspiration. Thus, after the inflammation has been checked by opening medicines, the decoction of woods may be drank, after which a course of bitters

will be proper.

Such as are liable to frequent attacks of the eryfipelas, ought carefully to guard against all violent passions; to abstain from strong liquors, and all fat, viscid, and highly nourishing food. They should likewise take sufficient exercise, carefully avoiding the extremes of heat or cold. Their food should consist chiefly of milk, and such fruits, herbs and roots, as are of a cooling quality; and their drink ought to be small-beer, whey, butter-milk, and such like. They should never suffer themselves to be long costive. If that cannot be prevented by suitable diet, it will be proper to take frequently a gentle dose of cream of tartar, the lenitive electuary, or some other mild purgative.

^{*} See Appendix, Decoction of Woods.

CHAPTER XXVIII.

Of the Phrenitis; or, Inflammation of the Brain.

HIS is fometimes a primary difease, but oftener only a symptom of some other malady; as the inflammatory, eruptive, or spotted sever, &c. It is very common, as a primary disease, in warm climates, and is most incident to persons about the prime or vigour of life. The passionate, the studious, and those whose nervous system is irritable in a high degree, are most liable to it.

CAUSES.—This difease is often occasioned by night-watching, especially when joined with hard study: it may likewise proceed from hard drinking, anger, grief or anxiety. It is often occasioned by the stoppage of usual evacuations; as the bleeding piles in men, the customary discharges of women, &c. Such as imprudently expose themselves to the heat of the sun, especially by sleeping without doors in a hot season with their heads uncovered, are often suddenly seized with an inflammation of the brain, so as to awake quite delirious. When repellants are imprudently used in an erysipelas, an inflammation of the brain is sometimes the consequence. It may be occasioned by external injuries, as blows or bruises upon the head, &c.

SYMPTOMS.—The fymptoms which usually precede a true inflammation of the brain are pain of the head, redness of the eyes, a violent flushing of the face, disturbed sleep, or a total want of it, great dryness of the skin, costiveness, a retention of urine, a small dropping of blood from the nose, singing of the ears, and

extreme fenfibility of the nervous fystem.

When the inflammation is formed, the fymptoms in general are fimilar to those of the inflammatory sever. The pulse indeed is often weak, irregular, and trembling; but sometimes hard and contracted. When the brain itself is inflamed, the pulse is always soft and low; but when the inflammation only affects the integuments of the brain, viz. the dura and pia mater, it is hard. A remarkable quickness of hearing is a common symptom of this disease; but that seldom continues long. Another usual symptom is a great throbbing or pulsation in the arteries of the neck and temples. Though the tongue is often black and dry, yet the patient seldom complains of thirst, and even resules drink. The mind chiefly runs upon such objects as have before made a deep impression on it; and sometimes, from a sullen silence, the patient becomes all of a sudden quite outrageous.

A constant trembling and starting of the tendons is an unfavourable symptom, as are also a suppression of urine; a total want of sleep; a constant spitting; a grinding of the teeth, which last may be considered as a kind of convulsion. When a phremitis succeeds

an inflammation of the lungs, of the intestines, or of the throat, &c. it is owing to a translation of the disease from these parts to the brain, and generally proves satal. This shews the necessity of proper evacuations, and the danger of repellents in all inflammatory diseases.

The favourable fymptoms are, a free perspiration, a copious discharge of blood from the nose, the bleeding piles, a plentiful discharge of urine, which lets sall a copious sediment. Sometimes the disease is carried off by a looseness, and in women by an excessive flow of the menses.

As this disease often proves satal in a sew days, it requires the most speedy applications. When prolonged, or improperly treated, it sometimes ends in madness, or a kind of stupidity, which continues for life.

In the cure, two things are chiefly to be attended to, viz. to lessen the quantity of blood in the brain, and to retard the circulation towards the head.

REGIMEN.—The patient ought to be kept very quiet. Company, noife, and every thing that affects the fenses, or disturbs the imagination, increases the disease. Even too much light is hurtful: for which reason, the patient's chamber ought to be a little darkened, and he should neither be kept too hot nor cold. It is not necessary to exclude the company of an agreeable friend, as this has a tendency to sooth and quiet the mind. Neither ought the patient to be kept too much in the dark, lest it should occasion a gloomy melancholy, which is too often the consequence of this disease.

The patient must, as far as possible, be soothed and humoured in every thing. Contradiction will russle his mind, and increase his malady. Even when he calls for things which are not to be obtained, or which might prove hurtful, he is not to be positively denied them, but rather put off with the promise of having them as soon as they can be obtained, or by some other excuse. A little of any thing that the mind is set upon, though not quite proper, will hurt the patient less than a positive resussal. Whatever he was delighted with when in health, may here be tried; as pleasing stories, soft music, or whatever has a tendency to sooth the passions and compose the mind. Boerhaave proposes several mechanical experiments for this purpose; as the soft noise of water distilling by drops into a bason, and the patient trying to reckon them, &c. Any uniform sound, if low and continued, has a tendency to procure sleep, and consequently may be of service.

The aliment ought to be light, confisting chiefly of farinaceous fubstances; as panaro and ater-gruel, sharpened with jelly of currants, or juice of lemons, ripe fruits, roasted or boiled, jellies, preserves, &c. The drink, small, diluting, and cooling; as whey, barley-water, or decoction of barley and tamarinds, which latter not only render the liquor more palatable, but likewise more bene-

ficial, as they are of an opening nature.

MEDICINE.—Nothing more certainly relieves the patient than a free discharge of blood from the nose. When this comes of its own accord, it is by no means to be stopped, but rather promoted, by applying cloths dipped in warm water to the part.

Bleeding in the temporal arteries greatly relieves the head: but as this operation cannot always be performed, we recommend in its flead, bleeding in the jugular veins. When the patient's pulse and spirits are so low, that he cannot bear bleeding with the lancet, leeches may be applied to the temples. These not only draw off the blood more gradually, but by being applied nearer to the part affected, generally give more immediate relief.

A discharge of blood from the hæmorrhoidal veins is of great service, and ought by all means to be promoted. If the patient has been subject to the bleeding piles, and that discharge has been stopped, every method must be tried to restore it; as the application of leeches to the parts, sitting over the steams of warm water, sharp clysters, or suppositories made of honey, aloes, and rock-falt.

If the inflammation of the brain be occasioned by the stoppage of evacuations either natural or artificial, as the menses, issues, setons, or such like, all means must be used to restore them as soon

as possible, or to substitute others in their stead.

The patient's body must be kept open by stimulating clysters or smart purges; and small quantities of nitre ought frequently to be mixed with his drink. Two or three drachms, or more, if the case be dangerous, may be used in the space of twenty-four hours.

The head should be shaved and frequently rubbed with vinegar and rose-water. Cloths dipped in this mixture may likewise be applied to the head*. The seet ought frequently to be bathed in lukewarm water, and soft poultices of bread and milk may be kept constantly applied to them.

If the disease proves obstinate, and does not yield to these medicines, it will be necessary to apply a blister to the whole head.

CHAPTER XXIX.

Of the Ophthalmia; or, Inflammation of the Eyes.

HIS difease may be occasioned by external injuries; as blows, burns, bruises, and the like. It may likewise proceed from dust, quick-lime, or other substances getting into the eyes. It is often caused by the stoppage of customary evacuations; as the healing of old fores, drying up of issues, the suppressing of gentle morning sweats, or of the sweating of the feet, &c. Long exposure to the night air, especially in cold northerly winds, or whatever sud-

^{*} Even ice, when it can be procured, may be employed with advantage. (I. C.)

denly checks the perspiration, especially after the body has been much heated, is very apt to cause it. Viewing snow or other white bodies for a long time, or looking stedsastly at the sun, a clear fire, or any bright object, will occasion this malady. A sudden transition from darkness to very bright light, will often have the same essection.

Nothing more certainly occasions an inflammation of the eyes than night-watching, especially reading or writing by candle-light. Drinking spirituous liquors, an excess of venery, are very hurtful to the eyes. The acrid fumes of metals, and of feveral kinds of fuel, are also pernicious. Sometimes an inflammation of the eyes proceeds from a venereal taint, and often from a ferophulous or gouty habit. It may likewise be occasioned by the hairs in the eye-lids turning inwards, and hurting the eyes. Sometimes the difease is epidcmic, especially after wet seasons; and I have frequently known it prove infectious, particularly to those who lived in the same house with the patient. It may be occasioned by moist air, or living in low damp houses, especially in persons who are not accustomed to fuch fituations. In children it often proceeds from imprudently drying up of scabbed heads, a running behind the cars, or any other discharge of that kind. Inflammations of the eyes often succeed the fmall-pox or measles, especially in children of a scrophulous habit.

SYMPTOMS.—An inflammation of the eyes is attended with an acute pain, heat, rednefs, and fwelling. The patient is not able to bear the light, and fometimes he feels a pricking pain, as if his eyes were pierced with a thorn. Sometimes he imagines his eyes are full of motes, or thinks he fees flies dancing before him. The eyes are filled with a fealding rheum, which rushes forth in great quantities, whenever the patient attempts to look up. The pulse is generally quick and hard, with some degree of fever. When the difease is violent, the neighbouring parts swell, and there is a throbbing

or pulsation in the temporal arteries, &c.

A flight inflammation of the cyes, especially from an external cause, is easily cured; but when the disease is violent, and continues long, it often leaves specks upon the eyes, or dimness of sight,

and fometimes total blindness.

If the patient be seized with a looseness, it has a good effect; and when the inflammation passes from one eye to another, as it were by infection, it is no unfavourable symptom. But when the disease is accompanied with a violent pain of the head, and conti-

nucs long, the patient is in danger of lofing his fight.

REGIMEM.—The dict unless in scrophulous cases, can hardly be too spare, especially at the beginning. The patient must abstain from every thing of a heating nature. His food should consist chiefly of mild vegetables, weak broths, and gruels. His drink may be barley-water, balm-tea, common whey, and such-like. His chamber must be darkened, or his eyes shaded by a cover, so as to exclude the light, but not to press upon the eyes. He should not look at a candle, the fire, or any luminous object; and ought to avoid an

fmoke, as the fumes of tobacco, or any thing that may cause coughing, sneezing, or vomiting. He should be kept quiet, avoiding all violent efforts, either of body or mind, and encouraging sleep as

much as possible.

MEDICINE ——This is one of those diseases wherein great hurt is often done by external applications. Almost every person pretends to be possessed of a remedy for the cure of fore-eyes. These remedies generally consist of eye-waters and ointments, with other external applications, which do mischief twenty times for once they do good. People ought to be very cautious how they use such things, as even the pressure upon the eyes often increases the malady.

Bleeding in a violent inflammation of the eyes, is always neceffary. This should be performed as near the part affected as possible. An adult may loose ten or twelve ounces of blood from the jugular vein, and the operation may be repeated according to the urgency of the symptoms. If not convenient to bleed in the neck, the same quantity may be let from the arm, or any other part of the body.

Leeches are often applied to the temples, or under the eyes, with good effect*. The wounds must be suffered to bleed for some hours, and if the bleeding stop soon, it may be promoted by the application of cloths dipt in warm water. In obstinate cases, it will be neces-

fary to repeat this operation feveral times.

Brisk purging with glauber falt, should be produced, during the time bleeding is used; after that, the bowels may be kept open every other day, with a decoction of tamarinds with senna. A gentle dose of cream of tartar, castor-oil, or any other laxative, will answer the same end.

If the inflammation does not yield to these evacuations, blisters must be applied to the temples, behind the ears, or upon the neck, and kept open for some time by the mild blistering ointment. I have seldom known these, if long enough kept open, fail to remove the most obslinate inflammation of the eyes; but for this purpose, it is often necessary to continue the discharge for several weeks.

When the difease has been of long standing, I have seen very extraordinary effects from a seton in the neck, or between the shoulders, especially the latter. It should be put upwards and downwards, or in the direction of the spine, and in the middle, between the shoulder blades. It may be dressed twice a day with yellow basilicon. I have known patients, who had been blind for a considerable time, recover sight by means of a seton placed as above. When the seton is put across the neck, it soon wears out, and is both more painful and troublesome than between the shoulders; besides, it leaves a disagreeable mark, and does not discharge so freely.

When the heat and pain of the eyes are very great, a poultice of bread and milk, foftened with fweet oil or fresh butter, may be

^{*} If leeches cannot be procured, blood may be drawn from the temple by cupping. (1. C.)

applied to them, at least all night; and they may be bathed with

lukewarm milk and water in the morning.

If the patient cannot fleep, which is fometimes the eafe, he may take twenty or thirty drops of laudanum, or two spoonfuls of the syrup of poppies, over night, more or less according to his age, or

the violence of the fymptoms.

After the inflammation is gone off, if the eyes remain weak and tender, they may be bathed every night and morning with cold water and a little brandy, fix parts of the former to one of the latter. A method should be contrived by which the eye can be quite immersed in the brandy and water, where it should be kept for some time. I have generally sound this, or cold water and vinegar, as good a strengthener of the eyes as any of the most celebrated collyriums.

When an inflammation of the eyes proceeds from a schrophulous habit, it generally proves very obstinate. In this case, the patient's diet must not be too low, and he may be allowed to drink small negus, or now-and-then a glass of wine. The most proper medicine is the bark, which may be given in substance, or prepared

as follows:

Take an ounce of the bark in powder, with two drachms of Winter's bark, and boil them in an English quart of water to a pint; when it has boiled nearly long enough, add half an ounce of liquorice root, fliced. Let the liquor be firained. Two, three, or four table-spoonfuls, according to the age of the patient, may be taken three or four times a-day. It is impossible to say how long this medicine should be continued, as the cure is sooner performed in some than in others; but, in general, it requires a considerable time to produce any lasting effects.

Preparations of mereury may be of fingular fervice in opthalmias of long continuance, but they ought always to be administered with the greatest eaution, or by persons of skill in physic.

It will be proper frequently to look into the eyes, to fee if any hairs be turned inwards, or pressing upon them*. These ought to

be plucked out with a pair of small pincers.

Those who are liable to frequent returns of this disease, ought constantly to have an issue in one or both arms. Bleeding or purging in spring and autumn, will be very beneficial to such persons. They ought likewise to live with the greatest regularity, avoiding strong liquor, and every thing of a heating quality. Above all, let them avoid the night air and late studies.

* Any foreign body lodged in the eye may be expeditionfly removed by passing a finall hair-pencil between the eye-lid and the ball of the eye. In some places, the peasants dothis very effectually, by using their tongue in the same manner.

† As most people are fond of using eye-waters and ointments in this and other diseases of the eyes, we have inserted some of the most approved forms of these redicines in the appendix. See Appendix, Eye-water

and bye-falve.

CHAPTER XXX.

Of the Quinfey; or, Inflammation of the Throat.

HIS difease is very common in Britain, and is frequently attended with great danger. It prevails in the winter and spring, and is most fatal to young people of a sanguine tempera-

CAUSES .- In general it proceeds from the same cause as other inflammatory diforders, viz. an obstructed perspiration. It is often occasioned by omitting some part of the covering, usually worn about the neck, by drinking cold liquor when the body is warm, by riding or walking against a cold northerly wind, or by any thing that greatly cools the throat, and parts adjacent. It may likewise proceed from the neglect of bleeding, purging or any customary evacuation.

Singing, speaking loud and long, or whatever strains the throat, may likewise cause an inflammation of that organ. I have often known the quinfey prove fatal to jovial companions, who, after fitting long in a warm room, drinking hot liquors, and finging with vehemence, were fo imprudent as to go abroad in the cold nightair. Sitting with wet feet, or keeping on wet clothes, is very apt to occasion this malady. It is frequently occasioned by continuing long in a moist place, sitting near an open window, sleeping in a damp bed, fitting in a room that has been newly plastered, &c. I know people who never fail to have a foar throat, if they fit even but a short time in a room lately washed.

Acrid or irritating food may inflame the throat, and occasion a quinfey. It may proceed from bones, pins, or other sharp substances flicking in the throat, or from the caustic sumes of metals or minerals, as arfenic, antimony, &c. taken in by the breath. This

disease is sometimes epidemic and infectious.

SYMPTOMS.—The inflammation of the throat is evident from inspection, the parts appearing red and swelled; besides, the patient complains of pain in swallowing. His pulse is quick and hard, with other symptoms of a fever. If blood be let, it is generally covered with a rough coat of a whitish colour, and the patient spits a tough phlegm. As the swelling and inflammation increafe, the breathing and fwallowing become more difficult; the pain affects the cars; the eyes generally appear red; and the face fwells. The patient is often obliged to keep himself in an erect posture, being in danger of inflecation; there is a constant nausea, or inclination to vomit; and the drink, instead of passing into the stomach, is often returned by the nofe. The patient is fometimes ftarved at last, merely from an inability to swallow any kind of food. When the breathing is laborious, with straitness of the breast, and anxiety, the danger is great. Though the pain in fwallowing be very great, yet while the patient breathes eafy, there is not fo much danger. An external fwelling is no unfavourable fymptom; but if it fuddenly falls, and the disease assects the breast, the danger is very great. When a quinsey is the consequence of some other disease, which has already weakened the patient, his situation is dangerous. A frothing at the mouth, with a swelled tongue, a pale, ghastly countenance, and coldness of the extremities, are fatal symptoms.

REGIMEN.—The regimen in this difease is in all respects the same as in the pleurify, or peripueumony. The food must be light, and in small quantity, and the drink plentiful, weak and di-

luting, mixed with acids.

It is highly necessary that the patient be kept easy and quiet. Violent affections of the mind, or great efforts of the body, may prove statal. He should not even attempt to speak but in a low voice. Such a degree of warmth as to promote a constant, gentle sweat, is proper. When the patient is in bed, his head ought to be rais-

ed a little higher than usual.

It is peculiarly necessary that the neck be kept warm; for which purpose, several folds of soft stannel may be wrapt round it. That alone will often remove a slight complaint of the throat, if applied in due time. A judicious custom prevails among the peasants of Scotland: When they seel any uncasiness of the throat, they wrap a stocking about it all night. So essectual is this remedy, that in many places it passes for a charm, and the stocking is applied with particular eeremonies: this custom should never be neglected. When the throat has been thus wrapt up all night, it must not be exposed to the cold air through the day, but a handkerchief or a piece of stannel kept about it till the instammation be removed.

The jelly of black currants is a medicine very much in esteem for complaints of the throat; and is of some use. It should be almost constantly kept in the mouth, and swallowed down leisurely. It may be mixed in the patient's drink, or taken any other way. When it cannot be obtained, the jelly of red currants, or of mul-

berries, may be used in its stead.

Gargles for the throat are very beneficial. They may be made of fage-tea, with a little vinegar and honey, or by adding to half an English pint of the pectoral decoction, two or three spoonfuls of honey, and the same quantity of eurrant jelly. This may be used three or four times a-day; and if the patient be troubled with tough viscid phlegm, the gargle may be rendered more sharp and cleansing, by adding to it a tea-spoonful of the spirit of sal ammoniac. Some recommend gargles made of a decoction of the leaves or bark of the black-currant-bush; but where jelly can be had, these are unnecessary.

In no difease is the benefit of bathing the seet and legs in lukewarm water more apparent: that practice ought therefore never to be neglected. If people were careful to keep warm, to wrap up their throats with flannel, to bathe their feet and legs in warm water, and to use a spare diet, with diluting liquors, at the beginning of this disease, it would feldom proceed to a great height, or be attended with any danger: but when these precautions are neglected, and it becomes violent, more powerful medicines are necessary.

MEDICINE.—An inflammation of the throat being a most acute and dangerous distemper, which sometimes takes off the patient very suddenly, it will be proper, as soon as the symptoms appear, to bleed in the arm, or rather in the jugular yein, and to re-

peat the operation if circumstances require.

The body should be kept gently open by giving the patient for his ordinary drink, a decoction of figs and tamarinds, or small doses of cream of tartar and nitre, as recommended in the erysipelas. These may be increased according to the age of the patient, and repeated till they have the defired effect.

I have often known very good effects from a bit of fal prunel, or purified nitre, held in the mouth, and swallowed down as it melted. This promotes the discharge of saliva, answers the end of a pargle, while at the same time it abates the fever, by promoting

the discharge of urine, &c.

The throat ought to be rubbed twice or thrice a-day with a little of the volatile liniment. This feldom fails to produce fome good effects. At the fame time the neck ought to be carefully covered with wool or flannel, to prevent the cold from penetrating the skin, as this application renders it very tender. Many other external applications are recommended in this difease, but there is none preferable to a common poultice of bread and milk.

Some recommend the gum guaiacum as a specific in this disdisease. Half a drachm of the gum in powder may be made into an electuary with the rob of elder-berries, or the jelly of currants

for a dose, and repeated occasionally.

Blisters upon the neck or behind the ears in violent inslammations of the throat are very beneficial; and in bad cases it will be necessary to lay a blister quite across the throat, so as to reach from ear to ear. After the plasters are taken off, the parts ought to be kept running by the application of issue ointment, till the inslammation is gone; otherwise, upon their drying up, the patient will be in danger of a relapse.

When the patient has been treated as above, a suppuration seldom happens. This, however, is sometimes the case, in spite of all endcavours to prevent it. When the inflammation and swelling continue, and it is evident that a suppuration will ensue, it ought to be promoted by drawing the steam of warm water into the throat through a tunnel, or the like. Soft poultices ought to be applied outwardly, and the patient may keep a roasted sig constantly in his mouth.

It fometimes happens, before the tumour breaks, that the swelling is fo great, as entirely to prevent any thing from getting down

unless he can be supported in some other way. This can only be done by nourishing clysters of broth, or gruel with milk, &c. Patients have often been supported by these for several days, till the tumour has broke; and afterwards they have recovered.

Not only the swallowing, but the breathing, is often prevented by the tumour. In this case, nothing can save the patient's life, but opening the trachea, or windpipe. As that has been often done with success, no person, in such desperate circumstances, ought to hesitate a moment about the operation; but as it can only be performed by a surgeon, it is not necessary here to give any directions about it.

When a difficulty of swallowing is not attended with an acute pain or inflammation, it is generally owing to an obstruction of the glands about the throat, and only requires that the part be kept warm, and the throat frequently gargled with something that may gently stimulate the glands, as a decoction of figs with vinegar and honey; to which may be added a little mustard, or a small quantity of spirits. But this gargle is never to be used where there are signs of an inflammation. This species of angina has various names among the common people, as the pap of the throat, the falling down of the almonds of the ears, &c. Accordingly, to remove it, they lift the patient up by the hair of the head, and thrust their singers under his jaws, &c. all which practices are at best useles, and often hurtful.

Those who are subject to inflammations of the throat, in order to avoid that disease, ought to live temperate. Such as do not choose to observe this rule, must have frequent recourse to purging and other evacuations, to discharge the supersluous humours. They ought likewise to beware of catching cold, and should abstain from aliment and medicines of an astringent or stimulating nature.

Violent exercife, by increasing the motion and force of the blood, is apt to occasion an inflammation of the throat, especially if cold liquor be drank immediately after it, or the body suffered suddenly to cool. Those who would avoid this disease, ought, therefore, after speaking aloud, singing, running, drinking warm liquor, or doing any thing that may strain the throat, or increase the circulation of the blood towards it, to take care to cool gradually, and to wrap some additional coverings about their necks.

Thave often known persons, who had been subject to fore throats, entirely freed from that complaint by only wearing a ribband, or a bit of slannel constantly round their necks, or by wearing thicker shoes, a slannel waistcoat, or the like. These may seem trisling, but they have great effect. There is danger indeed in leaving them off after persons have been accustomed to them; but surely the inconveniency of using such things for life, is not to be compared with the danger which may attend the neglect of them.

Sometimes, after an inflammation, the glands of the throat continue fwelled, and become hard and callous. This complaint is not easily removed, and is often rendered dangerous by the too frequent application of strong stimulating and styptic medicines. The best method is to keep it warm, and to gargle it twice a-day with a decoction of figs, sharpened a little with the elixir or spirit of vitriol.

Of the Malignant Quinsey; Or, Putrid, Ulcerous Sore Throat.

THIS kind of quinfey is but little known in the north of Britain, though, for some time past, it has been fatal in the more southern counties: It is frequently to be met with in America. Children are more liable to it than adults, females than males, and the delicate than those who are hardy and robust. It prevails chiefly in autumn, and is most frequent after a long course of damp or fultry weather.

CAUSES.—This is a contagious diffemper, and generally communicated by infection. Whole families, and even entire villages, often receive the infection from one person. This ought to put people on their guard against going near such patients as labour under the disorder; as they endanger their own lives, and those of their friends and connexions. Whatever tends to produce putrid or malignant fevers, may occasion the putrid ulcerous fore throat, as unwholesome air, damaged provisions, neglect of cleanliness, &c.

SYMPTOMS. - It begins with alternate fits of shivering and heat. The pulse is quick, but low and unequal, and generally continues so through the whole course of the disease. The patient complains greatly of weakness and oppression of the breast; his spirits are low, and he is apt to faint away when set upright; he is troubled with a nausea, and often with a vomiting or purging. The two latter are most common in children. The eyes appear red and watery, and the face swells. The urine is at first pale and crude; but, as the disease advances, it turns more of a yellowish colour. The tongue is white, and generally moift, which diffinguishes this from an inflammatory disease. Upon looking into the throat, it appears swelled, and of a florid red colour. Pale or ashcoloured spots, are here and there interspersed, and sometimes one broad patch or fpot, of an irregular figure, and pale white colour, furrounded with florid red, only appears. These whitish spots or floughs cover fo many ulcers.

An efflorescence, or eruption upon the neck, arms, breast, and fingers, about the fecond or third day, is a common fymptom of this difease. When it appears, the purging and vomiting generally

ceafe.

There is often a slight degree of delirium; the face frequently appears bloated, and the infide of the nostrils red and inflamed. The patient complains of a disagreeable putrid smell, and his breath is very offensive.

The putrid, ulcerous fore throat may be distinguished from the inflammatory by the vomiting and looseness with which it is generally ushered in; the foul ulcers in the throat covered with a white or livid coat; and by the excessive weakness of the patient; with

other symptoms of a putrid fever.

Unfavourable fymptoms are, an obstinate purging, extreme weakness, dimness of the sight, a livid or black colour of the spots, and frequent shiverings, with a weak, sluttering pulse. If the eruption upon the skin suddenly disappears, or becomes of a livid colour, with a discharge of blood from the nose or mouth, the danger is very great.

If a gentle fweat break out about the third or fourth day, and continue with a flow, firm, and equal pulse; if the sloughs cast off in a kindly manner, and appear clean and slorid at the bottom; and if the breathing is soft and free, with a lively colour of the

eyes, there is reason to hope for a salutary crisis.

REGIMEN.—The patient must be kept quiet, and for the most part in bed, as he will be apt to faint when taken out of it. His food must be nourishing and restorative; as sago-gruel with red wine, jellies, strong broths, &c. His drink ought to be generous, and of an antiseptic quality; as red wine negus, white wine whey, and such like.

MEDICINE.—The medicine in this kind of quinfey is entirely different from that which is proper in the inflammatory. All evacuations, as bleeding, purging, &c. which weaken the patient, must be avoided. Cooling medicines, as nitre and cream of tartar, are likewise hurtful. Strengthening cordials alone can be used

with fafety; and thefe ought never to be neglected.

If at the beginning there is a great nausea, or inclination to vomit, the patient must drink an infusion of green tea, camomile flowers, or carduus benedictus, in order to cleanse the stomach. If these are not sufficient, he may take a few grains of the powder of

ipecacuanha, or any other gentle vomit.

If the disease is mild, the throat may be gargled with an infusion of sage and rose leaves, to a gill of which may be added a spoonful or two of honey, and as much vinegar as will make it agreeably acid; but when the symptoms are urgent, the sloughs large and thick, and the breath very offensive, the following gargle may be used:

To fix or feven ounces of the pectoral decoction, when boiling, add half an ounce of contraverva-root; let it boil for fome time, and afterwards strain the liquor; to which add two ounces of white wine vinegar, an ounce of fine honey, and an ounce of the

tincture of myrrh. This ought to be used as a gargle, and a little of it should frequently be injected, with a syringe to clean the throat, before the patient takes any meat or drink. This method is peculiarly necessary for children, who cannot use a gargle.

It will be of great benefit if the patient frequently receives into his mouth, through an inverted funnel, or proper inhaler, the

steams of warm vinegar, myrrh, and honey.

But when the putrid symptoms run high, and the disease is attended with danger, the only medicine that can be depended upon is the Peruvian bark. It may be taken in substance, if the patient's stomach will bear it. If not, an ounce of bark grossly powdered, with two drachms of Virginian snake-root, may be boiled in an English pint and a half of water, to half a pint; to which a zea-spoonful of the elixir of vitriol may be added, and an ordinary tea-cupful of it taken every three or four hours. Blisters are very beneficial in this difease, especially when the patient's pulse and spirits are low. They may be applied to the throat, behind the ears, or upon the back part of the neck.

Should the vomiting prove troublesome, it will be proper to give the patient two table-spoonfuls of the faline julep every hour. Tea made of mint and a little cinnamon will be very proper for his ordinary drink, especially if an equal quantity of red wine be

mixed with it.

In case of a violent looseness, the fize of a nutmeg of diascordium or fix or eight drops of laudanum, according to the age of the patient, may be taken in cinnamon water two or three times a-day; the japonic confection may be taken two or three times a-day, or oftener if necessary.

If a discharge of blood from the nose happens, the steams of warm vinegar may be received up the nostrils frequently; and the drink must be sharpened with spirits of vitriol, or tincture of

rofes.

In case of a strangury, the belly must be somented with warm water, and emollient anodyne clysters given three or four times a-day.

After the violence of the disease is over, the body should still be kept open with mild purgatives; as manna, fenna, rhubarb, or

the like.

If great weakness and dejection of spirits, or night-sweats, with other symptoms of a consumption, should ensue, we advise the patient to continue the use of the bark, with the elixir of vitriol, and take frequently a glass of generous wine. These, together with a milk-diet, and riding on horseback, are most likely for recovering his strength.

The Cynanche Parotidaa; Or, the Mumps.

THIS disease is known, in America, under the appellation of the mumps: It is more particularly incident to children than to grown people; and afflicts the patient but once in his life: It is

thought to be produced by contagion.

SYMPTOMS.—It comes on with a moderate fever: this is foon followed with a ftiffnefs in the neck, and a fwelling about the angle of the lower jaw. In a fhort time, the fwelling increases, and affects the whole neck; sometimes one side only is affected, but generally both. It is not unfrequently attended with a slight difficulty in swallowing. Those symptoms continue to increase until the third or sourch day. At length the sever subsides, the swelling recedes from the throat and neck; and the testicles in men, and the breasts in women, become affected in a similar manner: for the most part, this gradually disappears without much inconvenience; but when the swelling does not come on after that of the throat and neck, the sever often becomes considerable.

REGIMEN.—This complaint feldom requires much attention; the patient must confine himself to the house. The neck should be defended from cold, by the application of flannel. The

diet should be spare, and the drink diluting.

MEDICINE.—The parts about the neck may be bathed with a mixture, confifting of half a table-spoonful of sweet-oil, and sixty drops of laudanum. The bowels must be kept open with cream of tartar and slower of sulphur: but when the tumour has suddenly receded from the throat, in consequence of cold, or any other cause, and the sever becomes considerable, with pain in the head, a full and hard pulse, blood must be taken from the arm, and repeated as the symptoms may demand. A blister may also be applied to the fore or back part of the neck.

CHAPTER XXXI.

Of Colds and Coughs.

OLDS are the effect of an obstructed perspiration: Almost every cold is a kind of fever, which only differs in degree

from some of those already treated of.

No age, fex, or constitution, is exempted from this disease neither can any medicine or regimen prevent it. The inhabitants; of every climate are liable to catch cold, nor can the greatest circumspection defend them at all times from its attacks. Indeed,

if the human body could be kept constantly in an uniform degree of warmth, catching cold would be impossible: but as that cannot be effected by any means, the perspiration must be liable to many changes. Such changes, when small, do not affect the health; but,

when great, they must prove hurtful.

When oppression of the breast, a stussing of the nose, unusual weariness, pain of the head, &c. give ground to believe that the perspiration is obstructed, or, in other words, that the person has caught cold, he ought immediately to lessen his diet, at least the usual quantity of his folid food, and to abstain from all strong liquors. Instead of slesh, fish, eggs, milk, and other nourishing diet, he may eat light bread-pudding, yeal or chicken broth, panado, gruels, and fuch-like. His drink may be water-gruel fweetened with a little honey; an infusion of balm or linseed, sharpened with the juice of orange or lemon; a decoction of barley and liquorice, with tamarinds, or any other cool, diluting, acid liquor. His fupper should be light; as small posset or water-gruel, sweetened with honey, and a little toafted bread in it. If honey difagrees with the stomach, the gruel may be sweetened with treacle or coarse sugar, and sharpened with the jelly of currants. Those who have been accustomed to generous liquors, may take wine-whey instead of gruel, which may be fweetened as above.

The patient ought to lie longer than usual a-bed, and to encourage a gentle sweat, which is easily brought on towards morning, by drinking tea, or any warm diluting liquor. I have often known this practice carry off a cold in one day, which, in all probability, had it been neglected, would have cost the patient his life, or have confined him for some months. Would people facrifice a little time to ease and warmth, and practise a moderate degree of abstinence when the first symptoms of a cold appear, most of the bad effects which flow from an obstructed perspiration might be prevented. But, after the disease has gathered strength by delay, all attempts to remove it often prove vain. A pleurisy, a peripneumony, or a fatal consumption of the lungs, are the common effects of colds, which have either been totally neglected or treated im-

properly.

Many attempt to cure a cold, by getting drunk. But this, to fay no worse of it, is a very hazardous experiment. No doubt it may sometimes succeed, by suddenly restoring the perspiration; but when there is any degree of inflammation, which is frequently the case, strong liquors, instead of removing the malady, increase it. By this means, a common cold may become an inflammatory sever.

When those who labour for their daily bread catch cold, they cannot afford to lose a day or two, in order to keep themselves warm, and take a little medicine; by which means, the disorder is often so aggravated, as to confine them for a long time, or even to render them ever after unable to sustain hard labour. But even

fuch of the labouring poor as can afford to take care of themselves, are often too hardy to do it: they affect to dispise colds, and as long as they can crawl about, scorn to be confined by what they call a common cold. Hence, colds destroy such numbers of mankind. Like an enemy despised, they gather strength from delay, till they become invincible. Often travellers, rather than lose a day in the prosecution of their business, throw away their lives by pursuing their journey, even in the severest weather, with this disease upon them.

Colds may also be too much indulged. When a person, for every slight cold, shuts himself up in a warm room, and drinks great quantities of warm liquor, it may occasion such a general relaxation of the solids as will not be easily removed. It is, therefore, proper, when the disease will permit, and the weather is mild, to join to the regimen mentioned above, gentle exercise; as walking, riding on horseback, or in a carriage, &c. An obstinate cold, which no medicine can remove, will yield to gentle exercise and a pro-

per regimen of the diet.

Bathing the feet and legs in warm water has a great tendency to reftore perspiration. But care must be taken that the water be not too warm, otherwise it will do hurt. It should never be much warmer than the blood, and the patient should go immediately to bed after using it. Bathing the feet in warm water, lying in bed, and drinking warm water-gruel, or other weak liquors, will sooner take off a spasm, and restore the perspiration, than all the hot sudorisic medicines in the world. This is all that is necessary for removing a common cold; and if this course be taken at the beginning, it will feldom fail.

But when the fymptoms do not yield to abstinence, warmth, and diluting liquors, there is reason to fear the approach of some other disease; as an inflammation of the breast, an ardent sever, or the like. If the pulse, therefore, be hard and frequent, the skin hot and dry, and the patient complains of his head or breast, it will be necessary to bleed, and to give the cooling powders recommended in the scarlet sever, every three or four hours, till they give a stool.

It will likewise be proper to put a blister on the back, to give two table-spoonsuls of the saline mixture every two hours, and, in short, to treat the patient in all respects as for a slight sever. I have often seen this course, when observed at the beginning, remove the complaint in two or three day, when the patient had all the symptoms of an approaching ardent sever, or an inflammation of the breast.

The chief fecret of preventing colds, lies in avoiding, as far as possible, all extremes either of heat or cold, and in taking care, when the body is heated, to let it cool gradually. These and other circumstances relating to this important subject, are fully treated of, under the article Obstructed Perspiration.

Of a Common Cough.

A cough is generally the effect of a cold, which has either been improperly treated, or entirely neglected. When it proves obstinate, there is always reason to fear the consequences, as this shows a weak state of the lungs, and is often the forerunner of a confumption.

If the cough be violent, and the patient young and ftrong, with a hard quick pulfe, bleeding will be proper; but in weak and relaxed habits, bleeding rather prolongs the difease. When the patient spits freely, bleeding is unnecessary, and sometimes hurtful, as it

tends to lessen that discharge.

When the cough is not attended with any degree of fever, and the spittle is viscid and tough, sharp pectoral medicines are to be administered; as gum ammoniac, squills, &c. Two table-spoonfuls of the solution of the gum ammoniac may be taken two or three times a-day, more or less, according to the age and constitution of the patient. Squills may be given various ways: two ounces of the vinegar, the oxymel, or the syrup, may be mixed with the same quantity of simple cinnamon-water, to which may be added, an ounce of common water and an ounce of balsamic syrup. Two table-spoonfuls of this mixture may be taken three or four times a-day.

A fyrup made of equal parts of lemon-juice, honey, and sugarcandy, is likewife very proper in this kind of cough. A table

spoonful of it may be taken at pleasure.

stimulating quality, help to appeale the cough*.

When the defluxion is sharp and thin, these medicines rather do hurt. In this case, gentle opiates, oils, and mucilages, are more proper. A cup of an infusion of wild poppy leaves, and marshmallow roots, or the flowers of colts-foot, may be taken frequently; or a tea-spoonful of the paregoric elixir may be put into the patient's drink twice a-day.

When a cough is occasioned by acrid humours, tickling the throat and fauces, the patient should keep some soft pectoral lezenges almost constantly in his mouth; as the liquorice cakes, barley-sugar, the common balfmatic lozenges, Spanish juice, &c. These blunt the acrimony of the humours, and, by taking off their

In a former edition, I recommended, for an obstinate tickling cough, an oily emulsion, made with the paregoric elixir of the Edinburgh Dispensatory, instead of the common alkaline spirit. I have since been told by several practitioners, that they found it to be an excellent medicine in this disorder, and every way deserving of the character which I had given it. Where this elixir is not kept, its place may be supplied by adding to the common oily emulsion, an adequate proportion of the Thebaic tinsture, or liquid laudanum.

In obstinate coughs, proceeding from a slux of humours upon the lungs, it will often be necessary, besides expectorating medicines, to have recourse to issues, setons, or some other drain*. I have often observed the most happy esfects from a Burgundy-pitch plaster applied between the shoulders. I have ordered this simple remedy in the most obstinate coughs, in a great number of cases, and in many different conflitutions, without ever knowing it fail to give relief, unless where there were evident figns of an ulcer in the lungs.

About the bulk of a nutmeg of Burgundy-pitch, may be spread thin upon a piece of foft leather, about the fize of the hand, and laid between the shoulder-blades. It may be taken off and wiped every three or four days, and ought to be renewed once a fortnight or three weeks. This is, indeed, a cheap and simple medicine, and confequently apt to be despised; but the materia medica does not afford an application more efficacious in almost every kind of cough. It has not indeed always an immediate effect; but, if kept on for some time, it will succeed where most other medicines

The only inconveniency attending this plaister, is the itching which it occasions; but furely this may be dispensed with, confidering the advantage which the patient may expect to reap from the application. When the itching becomes very uneafy, the plaifter may be taken off, and the part rubbed with a dry cloth, or washed with a little warm milk and water. Some caution is necessary in discontinuing the use of such a plaister; this, however, may be fafely done by making it fmaller by degrees, and at length quitting it altogether in a warm feafon+.

But coughs proceed from many other causes besides defluxions upon the lungs. In these cases, the cure is not to be attempted by pectoral medicines. Thus, in a cough proceeding from a foulness and debility of the stomach, fyrups, oils, mucilages, and all kinds of balfamic medicines do hurt. The flomach cough may be known from one that is owing to a fault in the lungs, by this, that in the latter the patient coughs whenever he inspires, or draws in his

breath fully; but in the former, that does not happen.

The cure of this cough depends chiefly upon cleanfing and strengthening the stomach; for which purpose, gentle vomits and bitter purgatives are most proper. Thus, after a vomit or two, the facred tincture, as it is called, may be taken for a confiderable

^{*} The patient should wear flannel next his skin, in order to promote (I. C.) perspiration.

[†] Some complain that the pitch plaisfer adheres too fast, while others find difficulty in keeping it on. This proceeds from the different kinds of pitch made use of, and likewise from the manner of making it. I generally find it answers best when mixed with a little bees-wax, and spread as cool as possible. The clear, hard, transparent pitch answers the purpose best.

time, in the dose of one or two table-spoonfuls, twice a-day, or as often as it is found necessary to keep the body gently open. People may make this tincture themselves, by insufing an ounce of hera piera* in an English pint of white wine, letting it stand a few days, and then straining it.

In coughs which proceed from a debility of the flomach, the bark is likewife of confiderable fervice. It may either be chewed, taken in powder, or made into a tincture along with other floma-

chic bitters.

A nervous cough can only be removed by change of air, proper exercise, and gentle opiates. Instead of the saponaceous pill, the paragoric elixir, &c. which are only opium disguised, ten, sisteen, twenty, or twenty-five drops of liquid laudanum, more or less, as circumstances require, may be taken at bed time, or when the cough is most troublesome. Immersing the feet and hands in warm water will often appease the violence of a nervous cough.

When a cough is only the fymptom of some other malady, it is in vain to attempt to remove it, without first curing the disease from which it proceeds. Thus, when a cough is occasioned by teething, keeping the body open, scarifying the gums, or whatever facilitates the cutting of the teeth, likewise appeares the cough. In like manner, when worms occasion a cough, such medicines as remove these vermin will generally cure the cough; as bitter purgatives, oily clysters, and such like.

Women during the last months of pregnancy, are often greatly afflicted with a cough, which is generally relieved by bleeding, and keeping the body gently open. They ought to avoid all statu-

lent food, and to wear a loofe eafy drefs.

A cough is not only a fymptom, but is often likewise the forerunner of diseases. Thus, the gout is frequently ushered in by a very troublesome cough, which affects the patient for some days before the coming on of the sit. This cough is generally removed by a paroxysm of the gout, which should therefore be promoted, by keeping the extremities warm, drinking warm liquors, and bathing the seet and legs frequently in lukewarm water.

Of the Whooping-Cough, or Chin-Cough.

This cough feldom affects adults, but proves often fatal to children. Such children as live upon thin watery diet, who breathe unwholesome air, and have too little exercise, are most liable to this disease, and generally suffer most from it.

The chin-cough is fo well known, that a description of it is unnecessary. Whatever hurts the digestion, obstructs the perspira-

tion, or relaxes the folids, disposes to this disease: consequently, its cure must depend upon cleansing and strengthening the stomach, bracing the folids, and at the same time promoting perspiration and the distance to executions.

The diet must be light, and of easy digestion; for children, good bread made into pap or pudding, chicken-broth, with other light spoon-meats, are proper; but those who are farther advanced, may be allowed sago-gruel, and if the sever be not high, a little boiled chicken, or other white meats. The drink may be hyssop, or pennyroyal tea, sweetened with honey or sugar-candy, small wine-whey; or, if the patient be weak, he may sometimes

be allowed a little negus.

One of the most effectual remedies in the chin-cough, is change of air. This often removes the malady, even when the change seems to be from a purer to a less wholesome air. This may in some measure depend on the patient's being removed from the place where the infection prevails. Most of the diseases of children are infectious; nor is it at all uncommon to find the chin-cough prevailing in one town or village, when another, at a very small distance, is quite free from it. But whatever be the cause, we are sure of the fact. No time ought therefore to be lost in removing the patient at some distance from the place where he caught the disease, and, if possible, into a more pure and warm air*.

When the difease proves violent, and the patient is in danger of being suffocated by the cough, he ought to be bled, especially if there be a fever with a hard sull pulse. But as the chief intention of bleeding is to prevent an inflammation of the lungs, and to render it more safe to give vomits, it is feldom necessary to repeat the operation; yet if there are symptoms of an inflammation of the lungs, a second or even a third bleeding may be requisite.

It is generally reckoned a favourable fymptom when a fit of coughing makes the patient vomit. This cleanfes the stomach, and greatly relieves the cough. It will therefore be proper to promote this discharge, either by small doses of ipecacuanha, or the

vomiting julep recommended in the Appendixt.

It is very difficult to make children drink after a vomit. I have often feen them happily deceived, by infufing a feruple or half a drachm of the powder of ipecacuanha in a tea-pot, with half an English pint of boiling water. If this be difguised with a few drops of milk and a little fugar, they will imagine it tea, and drink it very greedily. A small tea-cupful of this may be given every

^{*} Some think the air ought not to be changed till the disease is on the decline; but there seems to be no sufficient reason for this opinion, as potients have been known to reap benefit from a change of air at all periods of the disease. It is not sufficient to take the patient out daily in a carriege. This seldom answers any good purpose; but often does hurt, by giving him cold.

[†] See Appendix, Vomiting Julep.

quarter of an hour, or rather every ten minutes, till it operates. When the child begins to puke, there will be no occasion for drinking any more, as the water already on the stomach will be sufficient.

Vomits not only cleanfe the stomach, which in this disease is generally loaded with viscid phlegm, but they likewise promote the perspiration and other secretions, and ought therefore to be repeated according to the obstinacy of the disease. They should not however be strong: gentle vomits frequently repeated are both less dangerous, and more beneficial than strong ones.

The body ought to be kept gently open. The best medicines for this purpose are castor oil, or flour of sulphur and cream of tartar. These must be given in small doses, and repeated as occa-

sion requires.

Many people believe that oily, pectoral, and balfamic medicines possess wonderful virtues for the cure of the chin-cough, and accordingly exhibit them plentifully to patients of every age and constitution, without considering that every thing of this nature must load the stomach, hurt the digestion, and of course, aggravate the disorder*.

Oprates are fometimes necessary to allay the violence of the cough. For this purpose, a little of the syrup of poppies, or sive, fix, or seven drops of laudanum, according to the age of the patient, may be taken in a cup of hyssop, pennyroval tea, or sugar

and water, and repeated occasionally +.

The garlic ointment is a well-known remedy in North-Britain for the Chin-cough. It is made by beating, in a mortar, garlic, with an equal quantity of hogs-lard. With this, the foles of the feet may be rubbed twice or thrice a-day; but the best method is to spread it upon a rag, and apply it in the form of plaister. It should be renewed every night and morning at least, as the garlic soon loses its virtue. This is an exceeding good medicine, both in the chin-cough and in most other coughs of an obstinate nature. It ought not however to be used when the patient is very hot or severish, lest it should increase these symptoms.

The feet should be bathed once every two or three days in lukewarm water; and a Burgundy pitch plainter kept constantly between the shoulders. But when the disease proves very violent, it will be necessary, instead of it, to apply a blister, and to keep

the part open for some time with iffue-ointment.

* Dr. Duplanil fays, he has feen many good effects from the kermes mineral in this complaint, the cough being frequently alleviated even by the first dose. The dose for a child of one year old, is a quarter of a grain dissolved in a cup of any liquid, repeated two or three times a-day. For a child of two years, the dose is half a grain; and the quantity must be thus increased, in proportion to the age of the patient.

⁺ Some recommend the extract of hemlock as an extraordinary remedy in the hooping-cough; but so far as I have been able to observe, it is no way superior to opium, which, when properly administered, will often relieve some of the most troublesome symptoms of this disorder.

When the disease is prolonged, and the patient is free from a fever, the bark, and other bitters, are the most proper medicines. The bark may either be taken in substance, or in a decoction or insusion, as is most agreeable. For a child, ten, sisteen, or twenty grains, according to the age of the patient, may be given three or four times a-day. For an adult, half a drachm or two scruples will be proper. Some give the extract of the bark with cantharides; but to manage this, requires a considerable attention. It is more safe to give a sew grains of castor along with the bark. A child of six or seven years of age, may take seven or eight grains of castor, with sisteen grains of powdered bark, for a dose. This may be made into a mixture with two or three ounces of any simple distilled water, and a little syrup, and taken three or four times a-day.

CHAPTER XXXII.

Inflammation of the Stomach, and other Vifcera.

LL inflammations of the bowels are dangerous, and require the most speedy affistance; as they frequently end in a suppuration, and sometimes in a mortification, which is certain death.

CAUSES.—An inflammation of the stomach may proceed from any of the eauses which produce an inflammatory sever; as cold liquor drank while the body is warm, obstructed perspiration, or the sudden striking in of any cruption. It may likewise proceed from the acrimony of the bile, or from aerid and stimulating substances taken into the stomach; as strong vomits or purges, corrosive poisons, and such-like. When the gout has been repelled from the extremities, either by cold or improper applications, it often occasions an inflammation of the stomach. Hard or indigestible substances taken into the stomach, as bones, the stones of fruit, &c. may likewise have that effect.

SYMP FOMS.——It is attended with a fixed pain and burning heat in the stomach; great restlessiness and anxiety; a small, quick, hard pulse; vomiting, or, at least, a nausea and siekness; excessive thirst; coldness of the extremities; dissibutly of breathing; cold clammy sweats; and sometimes convulsions and fainting sits. The stomach is swelled, and often feels hard to the touch. One of the most certain signs of this disease is, the sense of pain, which the patient feels upon taking any kind of food or drink, especially if it

be either too hot or too cold.

When the patient vomits every thing he cats or drinks, and is extremely refllets, has a hiceup, with an intermitting pulse, or frequent fainting fits, the danger is very great.

REGIMEN. --- All acrimonious, heating, and irritating food

and drink are carefully to be avoided. The weakness of the patient may deceive the by-standers, and induce them to give him wines, spirits, or other cordials; but these never fail to increase the disease, and often occasion sudden death. The inclination to vomit may likewise impose on the attendants, and make them think a vomit necessary; but that too is almost certain death.

The food must be light, thin, cool, and easy of digestion. It must be given in small quantities, and should neither be quite cold nor too hot. Thin gruel made of barley or oatmeal, light toasted bread dissolved in boiling water, or very weak chicken-broth, are the most proper. The drink should be clear whey, barley-water, water in which toasted bread has been boiled, or decoctions of emollient vegetables; as liquorice and marsh-mallow roots, far-faparilla, &c.

MEDICINE.—Bleeding in this difease is absolutely necessary, and is almost the only thing that can be depended on. When the disease proves obstinate, it will often be proper to repeat this operation several times, nor must the low state of the pulse deter us from doing so. The pulse, indeed, generally rises upon bleeding,

and as long as that is the case, the operation is safe.

Frequent fomentations with lukewarm water, or a decoction of emollient vegetables, are likewife beneficial. Flannel cloths dipped in these must be applied to the region of the stomach, and removed as they grow cool. They must neither be applied too warm, nor be suffered to continue till they become quite cold, as either of these extremities would aggravate the disease.

The feet and legs ought likewise to be frequently bathed in lukewarm water, and warm bricks or poultices may be applied to the soles of the feet. The warm bath, if it can be conveniently

used, will be of great service.

In this, and all other inflammations of the bowels, an epifpaffic, or blifter, applied over the part affected, is one of the best remedies. I have often used it, and do not recollect one instance where-

in it did not give relief to the patient.

The only internal medicines which we venture to recommend in this disease, are mild clysters. These may be made of warm water, or thin water-gruel; and if the patient is costive, a little sweet-oil, honey, or manna, may be added. Clysters answer the purpose of an internal somentation, while they keep the body open, and at the same time nourish the patient, who is often in this disease unable to retain any food upon his stomach. For these reasons, they must not be neglected, as the patient's life may depend on them.

Inflammation of the Intestines.

THIS is one of the most painful and dangerous discases that mankind are liable to. It generally proceeds from the same causes as the inflammation of the stomach; also, from costiveness, worms, eating unripe fruits, or great quantities of nuts, drinking hard windy malt liquors, as stale bottled beer or ale, sour wines, cyder, &c. It may likewise be occasioned by a rupture, by schirrous tumours of the intestines, or by their opposite sides growing together.

The inflammation of the intestines is denominated Iliac Passion, Enteritis, &c. according to the name of the parts affected. The treatment is nearly the same whatever part of the intestinal canal be the seat of the disease; we shall therefore on it these distinc-

tions, lest they should perplex the reader.

The symptoms here are nearly the same as in the foregoing disease; only the pain, if possible, is more acute, and is situated lower. The vomiting is likewise more violent, and sometimes even the excrements, together with the clysters and suppositories, are discharged by the mouth. The patient is continually belching up

wind, and has often an obstruction of his urine.

While the pain shifts, and the vomiting only returns at certain intervals, and while the clysters pass downwards there is ground to hope; but when the clysters and faces are vonited, and the patient is exceeding weak, with a low, sluttering pulse, a pale countenance, and a disagreeable or stinking breath, there is great reason to fear that the consequences will prove fatal. Clammy sweats, black feetid stools, with a small intermitting pulse, and a total cessation of pain, are signs of a mortification already begun, and of approaching death.

REGIMEN.—The regimen is in general the same as in an inflammation of the stomach. The patient must be kept quiet, avoiding cold, and all violent passions of the minl. His food ought to be very light, and given in small quantities; his drink weak and

diluting; as clear whey, barley-water, and fucl-like.

MEDICINE.—Bleeding in this, as well as in the inflammation of the stomach, is of the greatest importance. It should be performed as soon as the symptoms appear, and must be repeated according to the strength of the patient, and the violence of the disease.

A blifter is likewise to be applied immeriately over the part where the most violent pain is. This not only relieves the pain of the bowels, but even clysters and purgative nedicines, which before had no effect, will operate when the blifter begins to rise.

Fomentations and laxative clysters are by no means to be omitted. The patient's teet and legs should frequently be bathed in warm water; and cloths slipped in it applied to his belly. Blad-

ders filled with warm water may likewife be applied to the region of the navel, and warm bricks, or bottles filled with warm water, to the foles of the feet. The clysters may be made of barley-water or thin gruel with falt, and fostened with sweet oil or fresh butter. These may be administered every two or three hours, or oftener, if the patient continues costive.

If the disease does not yield to clysters and fomentations, recourse must be had to pretty strong purgatives; but as these, by irritating the bowels, often increase their contraction, and by that means, frustrate their own intention, it will be necessary to join them with opiates, which, by allaying the pain, and relaxing the spasmodic contractions of the guts, greatly assist the operation of

purgatives.

What answers the purpose of opening the body very well is a folution of the bitter purging falts. Two ounces of these may be diffolve in an English pint of warm water, or thin gruel, and a teacupful of it taken every half hour till it operates. At the same time, fifteen, twenty, or twenty-five drops of laudanum may be given in a glass of peppermint or simple cinnamon-water, to appeafe the irritation, and prevent the vomiting, &c.

Acids have often a very happy effect in staying the vomiting, and appealing the other violent symptoms of this disease. It will therefore be of use to sharpen the patient's drink with cream of tartar, juice of lemon; or, when these cannot be obtained, with

vinegar.

But it often happens that no liquid whatever will stay on the stomach. In this case, the patient must take purging pills. I have generally found the following answer very well: Take jalap in powder, and vitrolated tartar, of each half a drachm, opium one grain, Castile foop as much as will make the mass fit for pills. These must be taken at one dose, and if they do not operate in a

few hours, the dole may be repeated.

If a ftool cannot be procured by any of the above means, it will be necessary to immerse the patient in warm water up to the breast. I have often feen this succeed when other means had been tried in vain. The patient must continue in the water as long as he can eafily bear i without fainting, and if one immersion has not the defired effect, it may be repeated as foon as the patient's ftrength and spirits re recruited. It is more safe for him to go frequently into the bith, than to continue too long at a time; and it is often necessary to repeat it several times before it has the desired effect.

It has fometimes happened, after all other means of procuring a stool had been tried to no purpose, that this was brought about by immerfing the patient's lower extremities in cold water, or making him walk upon a wet pavement, and dashing his legs and thighs with cold water. This method, when others fail, at least merits a trial. It is indeed attended with fome danger; but a

doubtful remedy is better than none.

In desperate cases, it is common to give quicksilver. This may be given to the quantity of several ounces, or even a pound, but should not exceed that*. When there is reason to suspect a mortification of the guts, this medicine ought not to be tried. In that case, it cannot cure the patient, and will only hasten his death. But when the obstruction is occasioned by any cause that can be removed by force, quicksilver is not only a proper medicine, but the best that can be administered, as it is the fittest body we know for making its way through the intestinal canal.

If the disease proceeds from a rupture, the patient must be laid with his head very low, and the intestines returned by gentle prefure with the hand. If this, with fomentations and elysters, should not succeed, recourse must be had to a surgical operation, which

may give the patient relief.

Such as would avoid this excruciating and dangerous difease, must take care never to be too long without a stool. Some who have died of it, have had several pounds of hard dry faces taken out of their guts. They should likewise beware of eating too freely of sour or unripe fruits, or drinking stale windy liquors. &c. I have known it brought on by living too much on baked fruits, which are seldom good. It likewise proceeds frequently from cold eaught by wet clothes, &c. but especially from wet seet.



THE colic has a great refemblance to the two preceding difeases, both in its symptoms and method of eure. It is generally attended with costiveness and acute pain of the bowels; and re-

quires diluting diet, evacuations, somentations, &e.

Colics are variously denominated according to their causes, as the flatulent, the bilious, the bysteric, the nervous, &c. As each of these require a particular method of treatment, we shall point out their most general symptoms, and the means to be used for their relief.

The flatulent, or wind-eolie, is generally occasioned by an indifcreeture of unripe fruits, meats of hard digestion, windy vegetables, fermenting liquors, and such like. It may likewise proceed from an obstructed perspiration, or catching cold. Delicate people, whose digestive powers are weak, are most liable to this kind of colic-

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When quickfilver is given in too large quantities, it defeats its awa intention, as it pulls down the bottom of the flomach, which prevents it getting over the pylorus. In this case, the patient should be hung up by the heels, in order that the quickfilver may be discharged by his month.

The flatulent colic may either affect the stomach or intestines. It is attended with a painful stretching of the affected part. The patient feels a rumbling in his guts, and is generally relieved by a discharge of wind, either upwards or downwards. The pain is seldom confined to any particular part, as the vapour wanders from one division of the bowels to another till it finds a vent.

When the difease proceeds from windy liquor, green fruit, sour herbs, or the like, the best medicine, on the first appearance of the symptoms, is a dram of brandy, gin, or any good spirits.* The patient should likewise sit with his feet upon a warm hearth stone, or apply warm bricks to them; and warm cloths may be

applied to his stomach and bowels.

This is the only colic wherein ardent spirits, spiceries, or any thing of a hot nature, may be ventured upon. Nor indeed are they to be used here unless at the very beginning, before any symptoms of inflammation appear. We have reason to believe, that a colic, occasioned by wind or flatulent food, might always be cured by spirits and warm liquors, if taken immediately upon perceiving the first uneasiness; but when the pain has continued for a considerable time, and there is reason to sear an inflammation of the bowels already begun, all hot things are to be avoided as poison, and the patient is to be treated in the same manner as for the inflammation of the intestines.

Several kinds of food, as honey, eggs, &c. occasion colics in fome particular constitutions. I have generally found the best method of cure for these was, to drink plentifully of small diluting liquors, as water-gruel, small posset, water with toasted bread

foaked in it, &c.

Colics which proceed from excefs and indigestion, generally cure themselves, by occasioning vomiting or purging. These discharges are not to be stopped, but promoted by drinking plentifully of warm water, or weak posset. When their violence is over, the patient may take a dose of falts or castor-oil, to carry off the dregs of his debauch.

Colics occasioned by wet feet, or catching cold, may generally be removed at the beginning, by bathing the feet and legs in warm water, and drinking fuch warm diluting liquors as will promote the perspiration, as weak wine-whey, or water-gruel, with a small

quantity of spirits in it.

Those flatulent colics, which prevail so much among country people, might generally be prevented, were they to change their clothes when they get wet. They ought likewise to take a dram,

^{*} These generally assord relief, but the greatest disadvantage attending this practice is, that the patient is apt to become intoxicated, and liable to slide into the prassice of frequent inebriation. On this account, a dose of laudanum may be substituted, which is not quite so facinating to the patate, as for the patient to wish a repetition, without an absolute necessity. (1. C.)

or drink some warm liquor after eating any kind of green trash. We do not recommend dram-drinking, but in this case, spirits prove a real medicine, and the best that can be administered. A glass of good pepper-mint water will have nearly the same effect as a glass of brandy, and, in some cases, is rather to be preferred.

The bilious colic is attended with very acute pains about the region of the navel. The patient complains of great thirst, and is generally costive. He vomits a hot, bitter, yellow-coloured bile, which being discharged, seems to afford some relief, but is quickly followed by the same violent pain as before. As the distemper advances, the propensity to vomit sometimes increases, so as to become almost continual, and the proper motion of the intestines is so far perverted, that there are all the symptoms of an impending iliac passion.

If the patient be young and strong, and the pulse full and frequent, it will be proper to bleed. After which give forty drops of laudanum, and administer clysters to open the bowels.—Clear whey or gruel, sharpened with the juice of lemon, or cream of tartar, must be drank freely. Small chicken broth, with a little manna dissolved in it, or a slight decoction of tamarinds, are likewise very proper, or any other thin, acid, opening liquor.

Befides bleeding and plentiful dilution, it will be necessary to foment the belly with cloths dipped in warm water; and if this should not succeed, the patient must be immersed up to the breast

in warm water.

In the bilious colic, the vomiting is often very difficult to reftrain. When this happens, the patient may drink a decoction of toafted bread, or an infusion of garden-mint in boiling water. Should these not have the desired effect, the saline draught, with a few drops of laudanum in it, may be given, and repeated according to the urgency of the symptoms. A small quantity of Venice treacle may be spread in form of a cataplasm, and applied to the pit of the stomach. Clysters, with a proper quantity of Venice treacle or liquid laudanum in them, may likewise be frequently administered.

Such as are liable to frequent returns of the bilious colic should use slesh sparingly, and live chiefly upon a light vegetable diet. They should take frequently a dose of cream of tartar with tama-

rinds, or any other cool acid purge.

The hyfteric colic bears a great refemblance to the bilious. It is attended with acute pains about the region of the stomach, vomiting, &c. But what the patient vomits, in this case, is commonly of a greenish colour. There is a great sinking of the spirits, with dejection of mind and difficulty of breathing, which are the characteristic symptoms of this disorder. Sometimes it is accompanied with the jaundice, but this generally goes off of its own accord in a few days.

In this colic, all evacuations, as bleeding, purging, vomiting,

In this colic, all evacuations, as bleeding, purging, vomiting, &c. do hurt. Every thing that weakens the patient, or finks the fpirits, is to be avoided. If the vomiting should prove violent, lukewarm water, or small posset, may be drank to cleanse the stomach. Afterwards the patient may take sisteen, twenty, or twenty-sive drops of liquid laudanum in a glass of cinnamon water. This may be repeated every ten or twelve hours till the symptoms abate.

The patient may likewise take four or five of the sectid pills every six hours, and drink a cup of penny-royal tea after them. If asassectida should prove disagreeable, which is sometimes the case, a tea-spoonful of the tincture of castor in a cup of penny-royal tea, or thirty or forty drops of the balsam of Peru, dropped upon a bit of loas-sugar, may be taken in its stead. The anti-hysteric plaister may also be used, which has often a good effect.

The nervous colic prevails among miners, fmelters of lead, plumbers, the manufacturers of white lead, &c. It is very common in the cycler counties of England, and is supposed to be occasioned by the leaden vessels used in preparing that liquor. In the

West-Indies it is termed the dry belly-ach.

No difease of the bowels is more exeruciating than this. Nor is it soon at an end. I have known it continue eight or ten days with very little intermission, the body all the while continuing bound in spite of medicine, yet at length yield, and the patient recover. It generally leaves the patient weak, and often ends in a palfy.

The general treatment of this difease is nearly the same with that of the iliae passion, or inflammation of the guts. The body is to be opened by mild purgatives given in small doses, and frequently repeated, and their operation must be assisted by soft oily clysters, fomentations, &c. Castor-oil is reckoned peculiarly proper in this disease. It may both be mixed with the clysters and

given by the mouth.

Barbadoes tar is faid to be an efficacious medicine in this complaint. It may be taken to the quantity of two drachms three times a day, or oftener if the stomach will bear it. This tar, mixed with an equal quantity of strong rum, is likewise proper for rubbing the spine, in case any tingling, or other symptoms of a palfy are selt. When the tar cannot be obtained, the back may be rubbed with strong spirits, or a little oil of nutmegs or of rosemary.

If the patient remains weak and languid after this disease, he must take exercise on horseback, and use an insusion of the barkin wine. When the disease ends in a palsy, the bath-waters are ex-

tremely proper.

* See Appendix, Anti-hysteric plaister.

[†] As the finoke of tobaccothrown in o the bowels will often produce a tool, when all other means have failed, an apparatus for this purpose ought to be kept by every surgeon. It may be purchased at a small expense, and will be of service in several other cases, as the recovery of prowned persons, &c.

To avoid this kind of colic, people must shun all sour sruits, acids, suftere liquors, &c. Those who work in lead ought never to go to their business fasting, and their food should be oily or fat. They may take a glass of sallad oil, with a little brandy or rum every morning, but should never take spirits alone. Liquid aliment is best for them; as fat broths, &c. but low living is bad. They should frequently go a little out of the tainted air; and should never suffer themselves to be costive. In the West-Indies, and on the coast of Guinea, it has been found of great use, for preventing this colic, to wear a piece of slannel round the waist, and to drink an

Sundry other kinds of this disease might be mentioned, but too many distinctious perplex the reader. Those already mentioned are the most material, and should be attended to, as their treatment is very different. But even persons who are not in a condition to distinguish very accurately in these matters, may be of service to patients in colics of every kind, by only observing the following general rules, viz. To bathe the feet and legs in warra water; to apply bladders filled with warm water, or cloths dipped in it, to the stomach and bowels; to make the patient drink freely of diluting mucilaginous liquors; and to give him an emollient clyster every two or three hours. Should these not succeed, the patient ought to be immersed in warm water.

Inflammation of the Kidneys.

CAUSES.—This difease may proceed from any of those causes which produce an inflammatory fever. It may likewise be occasioned by wounds or bruises of the kidneys; small stones or gravel lodging within them; by strong diurctic medicines; as spirits of turpentine, tincture of cantharides, &c. Violent motion, as hard riding or walking, especially in hot weather, or whatever drives the blood too forcibly into the kidneys, may occasion this malady. It may proceed from lying too fest, too much on the back, involuntary contractions, or spasms, in the urinary vessels, &c.

SYMPTOMS.—There is a sharp pain about the region of the kidneys, with some degree of sever, and a stupor or dull pain in the thigh of the affected side. The urine is at first clear, and afterwards of a reddith colour; but in the worst kind of the disease, it generally continues pule, is passed with dissiculty, and commonly in small quantities at a time. The patient feels great uneassuess when he endeavours to walk or sit upright. He lies with mo stease on the affected side, and has generally a nausea or vomiting, resembling that in the colic.

This disease may be distinguished from the colic, by the pain

being feated farther back, and by the difficulty of passing urine, with which it is constantly attended.

REGIMEN. — Every thing of a heating or stimulating nature is to be avoided. The food must be thin and light; as panado, small broths, with mild vegetables, and the like. Emollient and thin liquors must be plentifully drank; as clear whey, or balm-tea sweetened with honey, decoctions of marsh-mallow roots, with barley and liquorice, &c. The patient, notwithstanding the vomiting, must constantly keep sipping small quantities of these or other diluting liquors. Nothing so fasely and certainly abates the instammation, and expels the obstructing cause, as copious dilution. The patient must be kept easy, quiet, and free from cold, as long as any symptoms of instammation remain.

MEDICINE.—Bleeding is generally necessary, especially at the leginning. Ten or twelve ounces may be let from the arm with a lancet, and if the pain and inflammation continue, the operation may be repeated in twenty-sour hours, especially if the patient be of a full habit. Leeches may be applied to the hæmorrhoidal veins, as a discharge from these will greatly relieve the pa-

tient.

Cloths dipped in warm water, or bladders filled with it, must be applied as near as possible to the part affected, and renewed as they grow cool. If the bladders be filled with a decoction of mallows and camomile flowers, to which a little saffron is added, and mixed with about athird part of new milk, it will be still more bene ficial.*

Emollient clysters ought frequently to be administered; and if these do not open the body, a little falt and honey or manna may be added to them.

The same course is to be followed where gravel or stone is lodged in the kidney, but when the gravel or stone is separated from the kidney, and lodges in the ureter, it will be proper, besides the somentations, to rub the small of the back with sweet oil, and to give gentle diuretics; as juniper-water, sweetened with the syrup of marsh-mallows: a tea-spoonful of the sweet spirits of nitre, with sisten or twenty drops of laudanum, may be given every three or sour hours until the pain is mitigated, in a cup of the patient's drink. He ought likewise to take exercise on horseback, or in a carriage, if he be able to bear it.

When the difease is protracted beyond the seventh or eighth day, and the patient complains of a stupor and heaviness of the part, has frequent returns of chillness, shivering, &c. there is rea-

^{*} The patient may go into the warm bath, which is more efficacious.

[†] The ureters are two long and finall canals, one on each fide, which carry the urine from the bason of the kidneys to the bladder. They are sometimes obstructed by small stones or gravel falling down from the kidneys and lodging in them.

fon to suspect that matter is forming in the kidney, and that an

abscess will ensue.

When matter in the urine shows that an ulcer is already formed in the kidney, the patient must be careful to abstain from all acrid, sour, and salted provisions; and to live chiefly upon mild mucilaginous herbs and fruits, together with the broth of young animals, made with barley and common pot-herbs, &c. His drink may be whey, and butter-milk that is not four. The latter is by some reckoned a specific remedy in ulcers of the kidneys. To answer this character, however, it must be drank for a considerable time. Chalybeate waters have likewise been found bencheial in this disease. This medicine is cashiy obtained, as it is found in every part of Britain. It must likewise be used for a considerable time, in order to produce any falutary essess.

Those liable to frequent returns of inflammation, or obstructions of the kidneys, must abstain from wines, especially such as abound with tartar; and their food ought to be light, and of easy digestion. They should use moderate exercise, and should not lie too hot,

nor too much on their back.

Inflammation of the Bladder.

The inflammation of the bladder proceeds, in a great measure, from the same causes as that of the kidneys. It is known by an acute pain towards the bottom of the belly*, and dissipation passing urine, with some degree of sever, a constant inclination

to go to stool, and a perpetual defire to make water.

This difease must be treated on the same principles as the preceding. The diet must be light, and thin, and the drink of a cooling nature. Bleeding is very proper at the beginning, and in robust constitutions, it will often be necessary to repeat it. The lower part of the belly should be somented with warm water, or a decoction of mild vegetables; and emollient clysters ought frequently to be administered, &c.

The patient should abstain from every thing that is of a hot, acrid, and stimulating quality, and should live entirely upon small

broths, gruels, or mild vegetables.

A stoppage of usine may proceed from other causes besides an inflammation of the bladder; as a swelling of the hamorrhoidal veins, hard faces lodged in the rectum; a stone in the bladder; exerciscences in the urinary passages, a palfy of the bladder, hysteric affections, &c. Each of these requires a particular treatment, which does not fall under our present consideration; in all

^{*} A violent pain in the lower part of the back is a common fraptore in this differie.

of them, mild and gentle applications are the fafest, as strong diuretic medicines, or things of an irritating nature, generally increase the danger. Some persons kill themselves by introducing probes into the urinary passages, to remove, as they think, somewhat obstructing the discharge of urine, and others bring on a violent inflammation of the bladder, by using strong diuretics, as oil of turpentine, &c. for that purpose.

Inflammation of the Liver.

THE liver is less subject to inflammation than most of the other viscera, as in it the circulation is flower; but when an inflammation does happen, it is with difficulty removed, and often ends in

a fuppuration or schirrus.

CAUSES.—Besides the common causes of instammation, are the following, viz. excessive satness, a schirrus of the liver itself, violent shocks from strong vomits when the liver was before unsound, any thing that suddenly cools the liver after it has been greatly heated, stones obstructing the course of the bile, drinking strong wines and spirituous liquors, using hot spicy aliment, obstinate hypochondriacal affections, &c.

SYMPTOMS.—This disease is known by a painful tension of the right side under the false ribs, attended with some degree of sever, a sense of weight, or sulness of the part, difficulty of breathing, loathing of food, great thirst, with a pale or yellowish

colour of the skin and eyes.

The fproptons are various, according to the degree of inflammation, and to the particular part of the liver where the inflammation happens. Sometimes the pain is fo inconfiderable, that an inflammation is not fuspected; but when it happens in the upper or convex part of the liver, the pain is more acute, the pulse quicker, and the patient is often troubled with a dry cough, a hiccup, and a pain extending to the shoulder, with difficulty of lying on the left side, &c.

This difease may be distinguished from the pleurify by the pain being less violent, seated under the salse ribs, the pulse not so hard, and by the difficulty of lying on the lest side. It may be distinguished from the hysteric and hypochondriac disorders by

the degree of fever with which it is always attended.

This difeuse, if properly treated, is seldom mortal. A constant hiccuping, violent sever, and excessive thirst, are bad symptoms. If it ends in a suppuration, and the matter cannot be discharged outwardly, the danger is great. When the schirrus of the liver ensues, the patient, if he observes a proper regimen, may nevertheless live a number of years telerably easy; but if he indulge

in animal food and strong liquors, or take medicines of an acrid or irritating nature, the schirrus will be converted into a cancer,

which must infallibly prove fatal.

REGIMEN.—The regimen is in this as in other inflammatory diforders. All hot things are to be carefully avoided, and cool diluting liquors, as whey, barley-water, &c. drank freely. The food must be light and thin, and the body, as well as the

mind, kept easy and quiet.

MEDICINE. Bleeding is proper at the beginning of this disease, and will often be necessary, even though the pulse should not feel hard, to repeat it. All violent purgatives are to be avoided; the body however must be kept gently open. A decoction of tamarinds, with a little honey or manna, will answer this purpose very well. The side affected must be somented in the manner directed in the foregoing diseases. Mild laxative clysters should be frequently administered; and, if the pain should still continue violent, a blifter may be applied over the part affected.*

Medicines which promote the fecretion of urine have a good effect. For this purpose, half a drachm of purified nitre, or a teaspoonful of the sweet spirits of nitre, may be taken in a cup of the

patient's drink three or four times a-day.

When there is an inclination to fweat, it ought to be promoted; but not by warm sudorifics. The only thing to be used for that purpose, is plenty of diluting liquors drank about the warmth of the human blood. The patient in this case, as well as in all other topical inflammations, ought to drink nothing that is colder than

If the stools should be loose, and even streaked with blood, no means must be used to stop them, unless they be so frequent as to weaken the patient. Loofe stools often prove critical, and carry off the disease.

If an abscess or imposthume is formed in the liver, all methods should be tried to make it break and discharge itself outwardly, as fomentations, the application of emollient poultices, fuch as are made of bread and milk, or flaxfeed flour. Sometimes the matter of an abscess comes away in the urine, and sometimes it is discharged by stool, but these are efforts of Nature which no means can promote. When the abscess bursts into the cavity of

^{*} The most judicious practice in this disease, is, that which was first employed in the East-Indies and China, where inflammations of the liver are almost as prevalent as intermittent fevers are in this country. After moderate evacuations, by bleeding and purging, or frequently without the use of either, they charge the system with mercury as soon as posfible, by rubbing two or three drachms of mercurial ointment on the internal parts of the legs and thighs every morning and evening; like-wife on the right fide of the abdomen, a little below the pained part. This must be continued until the gums are affected, and repeated until the symptoms disappear. This practice I have known frequently sucseed at Canton in China, and likewise in America. (I.C.)

the abdomen at large, death must ensue; nor will the event be more fovourable when the abscess is opened by an incision, unless in cases where the liver adheres to the peritonaum, * so as to form a bag for the matter, and prevent it from falling into the cavity of the abdomen; in which case, opening the abscess by a sufficiently

large incision, will probably save the patient's life.+

If the disorder should end in a schirrus, the patient must be careful to regulate his diet, &c. in such a manner as not to aggravate the disease. He must not indulge in sless, fish, strong liquors, or any highly seasoned or salted provisions; but should, for the most part, live on mild vegetables, as fruits and roots; taking gentle exercise, and drinking whey, barley-water, or butter milk. If he takes any thing stronger, it should be fine mild ale, which is less heating than wines or spirits.

We shall take no notice of inflammations of the other viscera. They must in general be treated upon the same principles as those already mentioned. The chief rule with respect to all of them is, to let blood, to avoid every thing that is strong, or of a heating nature, to apply warm somentations to the part affected, and to cause the patient to drink a sufficient quantity of warm diluting li-

quors.

CHAPTER XXXIII.

Of the Cholera Morbus, and other excessive Discharges from the Stomach and Bowels.

THE cholera morbus is a violent purging and vomiting, attended with gripes, fickness, and a constant desire to go to stole. It comes on suddenly, and is most common in autumn. Hardly any disease kills more quickly than this, when proper means are not used in due time for removing it.

* When we have reasons to suspect that the convex surface of the liver does not adhere to the periton aum of the abdomen, an incision should be made in the most depending part, but not quite through the abdominal muscles, in order to excite inflammation in the periton aum, and produce adhesion. This practice takes off the resistance, and allows the sack of matter to press against the most yielding part of the periton aum, which is in the direction of the wound, so that when the abscess bursts, it discharges itself by the incision. During the discharge of the matter, if the patient's strength is much on the decline, it must be supported by cordials and tonic medicine, together with a small allowance of animal food, such as beef-steaks, &c. (I. C.)

[†] I know a gentleman who has had feveral abfeeffes of the liver opened, and is now a frong and healthy man, though above eighty years of age.

CAUSES.—It is occasioned by a redundancy and putrid acrimony of the bile; cold; food that easily turns rancid or four on the stomach; as butter, bacon, sweet-meats, cucumbers, melons, cherries, and other cold fruits.* It is sometimes the effect of strong acrid purges or vomits, or of poisonous substances taken into the stomach. It may likewise proceed from violent passions or affections of the mind; as fear, anger, &c.

SYMPTOMS.—It is generally preceded by a cardialgia, or heart-burn, four belchings, and flatulencies, with pain of the stomach and intestines. To these succeed excessive vomiting, and purging of green, yellow, or blackish coloured bile, with a distension of the stomach, and violent griping pains. There is likewise a great thirst, with a very quick unequal pulse, and often a fixed acute pain about the region of the navel. As the disease advances, the pulse often sinks so low as to become quite imperceptible, the extremities grow cold, or cramped, and are often covered with a clammy sweat, the urine is obstructed, and there is a palpitation of the heart. Violent hiccuping, fainting, and convulsions, are the signs of approaching death.

MEDICINE.—At the beginning of this difease, the efforts of Nature to expel the offending cause should be affished, by promoting the purging and vomiting. For this purpose, the patient must drink freely of diluting liquors; as whey, butter-milk, warm water, thin water-gruel, small posset, or, what is perhaps preserable to any of them, very weak chicken broth. This should not only be drank plentifully to promote the vomiting, but a clyster of it given every

hour to promote the purging.

After these evacuations have been continued for some time, a decoction of toasted out-bread may be drank to stop the vomiting. The bread should be toasted till it is of a brown colour, and asterwards boiled in spring water. If out-bread cannot be had, wheat-bread, or out-meal well toasted, may be used in its stead. If this does not put a stop to the vomiting, two table-spoonsuls of the saline julep, with ten drops of laudanum, may be taken every hour till it ceases.

The vomiting and purging ought never to be stopped too soon. As long as these discharges do not weaken the patient, they are salutary, and may be allowed to go on, or rather ought to be promoted. But when the patient is weakened by the evacuations, which may be known from the sinking of his pulse, &c. recourse must immediately be had to opiates, as recommended above; to which may be added strong wines, with spirituous cinnamon-waters, and other generous cordials. Warm negus, or strong wine-whey, will likewise be necessary to support the patient's spirits, and promote the perspiration. His legs should be bathed in warm water, and

I have been twice brought to the gates of death by this disease, and both times it was occasioned by eating rancid bacon.

afterwards rubbed with flannel cloths, or wrapped in warm blankets, and warm bricks applied to the foles of his feet. Flannels wrung out of warm fpirituous fomentations should likewise be ap-

plied to the region of the stomach.*

When the violence of the difease is over, to prevent a relapse, it will be necessary for some time to continue the use of small doses of laudanum. Ten or twelve drops may be taken in a glass of wine, at least twice a day, for eight or ten days. The patient's food ought to be nourishing, but taken in small quantities, and he should use moderate exercise. As the stomach and intestines are generally much weakened, an infusion of the bark, or other bitters, in small wine, sharpened with the elixir vitriol, may be drank for some time.

Though physicians are feldom called in due time in this disease, they ought not to despair of relieving the patient even in the most desperate circumstances. Of this, I lately saw a very striking proof in an old man and his son, who had been both seized with it about the middle of the night. I did not see them till next morning, when they had much more the appearance of dead than of living men. No pulse could be felt; the extremities were cold and rigid; the countenance was ghastly, and the strength almost quite exhausted. Yet, from this deplorable condition, they were both recovered by the use of opiates and cordial medicines.

Of a Diarrhaa, or Loofeness.

A LOOSENESS, in many cases, is not to be considered as a disease, but rather as a salutary evacuation. It ought therefore never to be stopped, unless when it continues too long, or evidently weakens the patient. As this sometimes happens, we shall point out the most common causes of a looseness, with the proper method of treatment.

When a loofeness is occasioned by catching cold, or an obstructed perspiration, the patient ought to keep warm, to drink freely of weak diluting liquors, to bathe his feet and legs in lukewarm water, to wear stannel next his skin, and to take every other me-

thod to restore the perspiration.

In a loofeness which proceeds from excess or repletion, a vomit is the proper medicine. Vomits not only cleanse the stomach, but promote all the secretions, which render them of great importance in carrying off a debauch. Half a drachm of ipecacuanha in powder will answer this purpose very well. A day or two after the vomit, the same quantity of rhubarb may be taken, and repeated

^{*}Should the vomiting continue obstinate, a blister or poultice composed of rye meal, slower of mustard, and vinegar, applied to the region of the stomach, and continued until it gives pain, or even forms a blister, is frequently attended with the best effects. (I. C.)

ted two or three times, if the looseness continues. The patient ought to live upon light vegetable food, of easy digestion, and to

drink whey, thin gruel, or barley-water.

A looseness occasioned by the obstruction of any customary evacuation, generally requires bleeding. If that does not succeed, other evacuations may be substituted in the room of those which are obstructed. At the same time, every method is to be taken to restore the usual discharges, as not only the cure of the disease, but

the patient's life, may depend on this.

A periodical looseness ought never to be stopped. It is always an effort of Nature to carry off some offending matter, which, if retained in the body, might have fatal effects. Children are very liable to this kind of looseness, especially while teething. It is, however, so far from being hurtful to them, that such children generally get their teeth with least trouble. If these loose should at any time prove sour or griping, a tea-spoonful of magnesia alba, with sour or sive grains of rhubarb, may be given to the child in a little panado, or any other food. This, if repeated three or sour times, will generally correct the acidity, and carry off the griping stools.

A looseness which proceeds from violent passions or affections of the mind, must be treated with the greatest caution. Vomits in this case are highly improper. Nor are purges safe, unless they be very mild, and given in small quantities. Opiates, and other antispassmodic medicines are most proper. Ten or twelve drops of laudanum may be taken in a cup of valerian or penny-royal tea, every eight or ten hours, till the symptoms abate. Ease, cheerfulness and tranquillity of mind, are here of the greatest importance.

When a looseness proceeds from acrid or poisonous substances, taken into the stomach, the patient must drink large quantities of diluting liquors, with oil or fat broths, to promote vomiting and purging. Afterwards, if there be reason to suspect that the bowels are instanced, bleeding will be necessary. Small doses of laudanum may likewise be taken to remove their irritation.

When the gout, repelled from the extremities, occasions a loofeness, it ought to be promoted by gentle doses of rhubarb, or other mild purgatives. The gouty matter is likewise to be solicited towards the extremities by warm fomentations, cataplasms, &c. The perspiration ought at the same time to be promoted by warm diluting liquors; as wine-whey, with spirits of hartshorn, or a few drops of laudanum in it.

When a loofeness proceeds from worms, which may be known from the sliminess of the stools, mixed with pieces of decayed worms, &c. medicines must be given to kill and carry off these vermin, as the powder of tin, with purges of rhubarb and calomel. Afterwards lime-water, either alone, or with a small quantity of rhubarb infused, will be proper to strengthen the bowels, and pre-

vent the new generation of worms.

A loofeness is often occasioned by drinking bad water. When this is the case, the disease generally proves epidemical. When there is reason to believe that this, or any other disease proceeds from the use of unwholesome water, it ought immediately to be changed, or if that cannot be done, it may be corrected by mixing with it quick-lime, chalk, or the like.

In people, whose stomachs are weak, violent exercise immediately after eating, will occasion a looseness. The cure of this is obvious; yet it will be proper, besides avoiding violent exercise, to use such medicines as tend to brace and strengthen the stomach, as infusions of the bark, with other bitter and astringent ingredients, in white wine. Such persons ought likewise to take frequent-

ly a glass or two of old red port, or good claret.*

From whatever cause a looseness proceeds, when it is sound necessary to check it, the diet ought to consist of rice boiled with milk, and slavoured with cinnamon; rice-jelly; sago, with red port; and the lighter forts of slessh-meat roasted. The drink may be thin water-gruel, rice-water, or weak broth, made from lean veal, or with a sheep's head, as being more gelatinous than mutton, beef, or chicken-broth.

Persons, who from a peculiar weakness, or too great an irritability of the bowels, are liable to frequent returns of this disease, should live temperately, avoiding crude summer fruits, all unwholesome sood, and meats of hard digestion. They ought likewise to beware of cold, moisture, or whatever may obstruct the perspiration, and should wear stannel next their skin. All violent passions, as fear, anger, &c. are carefully to be guarded against.

Of Vomiting.

VOMITING may proceed from various causes; as excess in eating and drinking; soulness of the stomach; the acrimony of the aliments; a translation of the morbific matter of ulcers, of the gout, the erysipelas, or other diseases, to the stomach. It may likewise proceed from a looseness having been too suddenly stopped; from the stoppage of any customary evacuation, as the bleeding piles, the menses, &c. from a weakness of the stomach, the colic, the iliac passion, a rupture, a fit of the gravel, worms; or from any kind of poison taken into the stomach. It is an usual symptom of injuries done to the brain; as contusions, compressions, &c. It is likewise a symptom of wounds or inslammations of the diaphragm, intestines, spleen, liver, kidneys, &c.

Vomiting may be occasioned by unusual motions; as failing, being drawn backwards in a cart or coach, &c. by violent passions,

^{*} After every aftringent and tonic medicine has failed in the chronic diarrhoa of warm climates, a long voyage to fea has entirely removed the complaint. (I. C.)

or by the idea of nauseous or disagreeable objects, especially of such things as have formerly produced vomiting. Sometimes it proceeds from a regurgitation of the bile into the stomach: in this case, what the patient vomits, is generally of a yellow or greenish colour, and has a bitter taste. Persons who are subject to nervous assections, are often suddenly seized with violent sits of vomiting. Lastly, vomiting is a common symptom of pregnancy. In this case, it generally comes on about two weeks after the stoppage of the menses, and continues during the first three or sour months.

When vomiting proceeds from a foul stomach or indigestion, it is not a disease, but the cure of a disease. It ought therefore to be promoted by drinking lukewarm water, or thin gruel. If this does not put a stop to the vomiting, a dose of ipecacuanha may

be taken, and worked off with weak camomile tea.

When the retrocession of the gout, or the obstruction of customary evacuations, occasion vomiting, all means must be used to restore these discharges; or, if that cannot be effected, their place must be supplied by others, as bleeding, purging, bathing the extremities in warm water, opening issues, setons, perpetual blisters, &c.

When vomiting is the effect of pregnancy, it may generally be mitigated by bleeding, and keeping the body gently open. The bleeding however ought to be in small quantities at a time, and the purgatives should be of the mildest kind, as figs, stewed prunes, manna, or fenna. Pregnant women are most apt to vomit in the morning, immediately after getting out of bed, which is owing partly to the change of posture, but more to the emptiness of the stomach. It may generally be prevented by taking a dish of cosfee, tea, or some light breakfast in bed. Pregnant women who are afflicted with vomiting, ought to be kept easy both in body and mind. They should neither allow their stomachs to be quite empty, nor should they eat much at once. Cold water is a very proper drink in this case; if the stomach be weak, a little brandy may be added to it. If the spirits are low, and the person apt to faint, a spoonful of cinnamon water, with a little marmalade of quinces or oranges may be taken.

If vomiting proceeds from weakness of the stomach, bitters will be of service. Bark insused in wine or brandy, with as much rhubarb as will keep the body gently open, is an excellent medicine in this case. The elixir of vitriol is also good. It may be taken in the dose of sisteen or twenty drops, twice or thrice a-day, in a glass of wine or water. Habitual vomitings are sometimes alle-

viated by making oysters a principal part of diet.

A vomiting, which proceeds from acidities in the stomach, is relieved by alkaline purges. The best medicine of this kind is the magnesia alba, a tea-spoonful of which may be taken in a dish of tea or a little milk, three or four times a day, or oftener if necessary, to keep the body open.

When vomiting proceeds from violent passions, or affections of the mind, all evacuations must be carefully avoided, especially vomits. These are exceedingly dangerous. The patient, in this case, ought to be kept perfectly easy and quiet, to have the mind soothed, and to take some gentle cordial, as negus, or a little brandy and water, to which a few drops of laudanum may oc-

when vomiting proceeds from spasmodic affections of the stomach, musk, castor, and other antispasmodic medicines, are of use. Warm and aromatic plasters have likewise a good effect. The stomach-plaster of the London or Edinburgh dispensatory may be applied to the pit of the stomach, or a plaster of theriaca, which will answer rather better. Aromatic medicines may be taken inwardly, as cinnamon or mint-tea, wine with spiceries boiled in it, &c. The region of the stomach may be rubbed with aether, or, if that cannot be had, with strong brandy, or other spirits. The belly should be somented with warm water, or the patient immersed up to the breast in a warm bath.

The faline draughts taken in the act of effervescence are of fingular use in stopping a vomiting, from whatever cause. These may be prepared by dissolving a drachm of the salt of tartar in an ounce and half of fresh lemon juice, and adding to it an ounce of peppermint-water, the same quantity of simple cinnamonwater, and a little white sugar. This draught must be swallowed before the effervescence is quite over, and may be repeated every two hours, or oftener, if the vomiting be violent. A violent vomiting has sometimes been stopped by cupping on the region of

the stomach after all other means had failed.

As the least motion will often bring on the vomiting again, even after it has been stopped, the patient must avoid all manner of action. The diet must be so regulated as to sit easy upon the stomach, and nothing should be taken that is hard of digestion. The patient should not live entirely upon slops. Solid food, in this case, often sits easier on the stomach than liquids.

CHAPTER XXXIV.

Of the Diabetes, and other Diforders of the Kidneys and Bladder.

THE diabetes is a frequent and excessive discharge of urine. It is rare among young people; but often attacks persons in the decline of life, especially those who follow the more violent employments, or have been hard drinkers in their youth.

CAUSES.—A diabetes is often the confequence of acute difeases, as severs, fluxes, &c. where the patient has suffered by

excessive evacuations, or by great satigue, as riding long journies upon a hard trotting horse, carrying heavy burdens, running, &c. It may be brought on by hard drinking, or the use of strong stimulating diuretic medicines, as tincture of cantharides, spirits of turpentine, and such-like, or by drinking too great quantities of mineral waters. Many imagine that these will do them no service, unless they be drank in great quantities, by which they often occasion worse diseases than those they intended to cure. This disease may proceed from too great a laxity of the organs which secrete the urine, from something that stimulates the kidneys too much, or from a thin dissolved state of the blood, which makes too great a quantity of it run off by the urinary passages.

SYMPTOMS.——In a diabetes, the urine generally exceeds in quantity all the liquid food which the patient takes. It is thin and pale, of a fweetish taste, and an agreeable smell. The patient has a continual thirst, with some degree of sever; his mouth is dry, and he spits frequently a frothy spittle. The strength sails, the appetite decays, and the sless was till the patient is reduced to skin and bone. There is a heat of the bowels; and frequent-

ly the loins, testicles, and feet are swelled.

This disease may generally be cured at the beginning; but after it has continued long, the cure becomes very difficult. In drunkards and very old people, a perfect cure is not to be expected.

REGIMEN.—Every thing that stimulates the urinary passages, or tends to relax the habit, must be avoided. For this reason, the patient should live chiefly on solid food. His thirst may be quenched with acids; as forrel, juice of lemon, or vinegar. The mucilaginous vegetables, as rice, sago, and salop, with milk, are the most proper food. Of animal substances, shell-sish are to be preferred; as oysters, crabs, &c. The drink may be Bristol-water. When that cannot be obtained, lime-water, in which a due proportion of oak-bark has been macerated, may be used. The white decoction*, with singlass dissolved in it, is a very proper drink.

The patient ought daily to take exercife, but it should be so gentle as not to satigue him. He should lie upon a hard bed or matrass. Nothing hurts the kidnies more than lying too soft. Awarm, dry air, the sless-brush, and every thing that promotes perspiration, is of service. For this reason, the patient ought to wear slannel next his skin. A large strengthening plaister may be applied to the back; or, what will answer better, a great part of the body

may be wrapt in plaister.

MEDICINE.—Gentle purges, if the patient be not too much weakened by the disease, have a good essect. They may consist of rhubarb, with cardamum seeds, or any other spiceries, insused in wine, and may be taken in such quantity as to keep the body gendlesses.

tly open.

^{*} See Appendix. White Decoction.

The patient must next have recourse to astringents and corroborants. Half a drachm of powder, made of equal parts of allum and the inspissated juice commonly called Terra Japonica, may be taken four times a-day, or oftener, if the stomach will bear it. The allum must first be melted in a crucible; afterwards they may both be pounded together. Along with every dose of this powder, the patient may take a tea-cupful of the tincture of roses*.

If the patient's stomach cannot bear the allum in substance, whey may be made of it, and taken in the dose of a tea-cupful three or four times a day. The allum-whey is prepared by boiling two English quarts of milk over a flow fire, with three drachms of

allum, till the curd separates.

Opiates are of fervice in this disease, even though the patient rests well. They take off spasm and irritation, and at the same time lessen the force of the circulation. Ten or twelve drops of laudanum may be taken in a cup of the patient's drink three or four

times a-day.

The best corroborants which we know, are the bark and wine. A drachm of bark may be taken in a glass of red port or claret, three times a day. The medicine will be both more efficacious and less disagreeable, if fifteen or twenty drops of the acid elixir of vitriol be added to each dose. Such as cannot take the bark in substance, may use the decoction, mixed with an equal quantity of

red wine, and sharpened as above.

There is a disease incident to labouring people in the decline of life, called an Incontinency of Urine. But this is very different from a diabetes, as the water passes off involuntarily by drops, and does not exceed the usual quantity. This disease is rather troublesome than dangerous. It is owing to a relaxation of the sphincter of the bladder, and is often the effect of a passy. Sometimes it proceeds from hurts, or injuries occasioned by blows, bruises, preternatural labours, &c. Sometimes it is the effect of a sever. It may likewise be occasioned by a long use of strong diuretics. This disease may be mitigated by the use of astringent and corroborating medicines, such as have been mentioned above; but I have never feen it cured.

In an incontinency of urine, from whatever cause, a piece of sponge ought to be worn, or a bladder applied in such a manner as to prevent the urine from galling and excoriating the parts.

Of a Suppression of Urine.

A SUPPRESSION of urine may proceed from various causes; as an inflammation of the kidneys, or bladder; small stones or gravel lodging in the urinary passages, hard faces lying in the

^{*} See Appendix, Tincture of Rofes.

rectum, pregnancy, a spasm or contraction of the neck of the bladder, clotted blood in the bladder itself, a swelling of the hæ-

morrhoidal veins, &c.

Some of these cases require the catheter, both to remove the obstructing matter, and to draw off the urine; but as this instrument can only be managed with safety by persons skilled in surgery, we shall say nothing further of its use. A bougee may be used by any cautious hand, and will often succeed better than the catheter*. We chiefly recommend, in all obstructions of urine, spmentations and evacuants. Bleeding, as far as the patient's strength will permit, is necessary, especially where there are symptoms of topical inflammation. Bleeding in this case not only abates the sever, by lessening the force of the circulation, but, by relaxing the solids, it takes off the spasm or stricture upon the vessels which occasioned the obstruction.

After bleeding, fomentations must be used. These may either consist of warm water alone, or of decoctions of mild vegetables; as mallows, camomile-flowers, &c. Cloths dipped in these may either be applied to the part affected, or a large bladder filled with the decoction may be kept continually upon it. Some put the herbs themselves into a stannel bag, and apply them to the part, which is far from being a bad method. These continue longer warm than cloths dipped in the decoction, and at the same time

keep the part equally moist,

In all obstructions of urine, the body ought to be kept open. This is not however to be attempted by strong purgatives, but by emollient clysters, or gentle infusions of senna and manna. Clysters in this case not only open the body, but answer the purpose of an internal fomentation, and greatly assist in removing the spasms

of the bladder and parts adjacent,

The food must be light, and taken in small quantities. The drink may be weak broth, or decoctions and insusions of mucilaginous vegetables, as marsh-mallow-roots or stax-seed. A tea-spoonful of the sweet spirits of nitre, or a drachm of Castile soap, may be frequently not into the positive when the same of the same o

quently put into the patient's drink,

Perfons subject to a suppression of urine ought to live very temperate. Their diet should be light and their liquor diluting. They should avoid all acids and austere wines, should take sufficient exercise, lie hard, and avoid study and sedentary occupations.

In cases of total suppression of urine from strictures in the uretira, when neither of these instruments could be introduced into the blades, to evacuate the urine, I have succeeded in two instances onto. to eee, by puncturing the bladder with a long trocar, immediately above the policy, and evacuating the urine through the canula, until the obstruct, in was removed by the use of bougees. (I. C.)

[†] When the bowels have been freely opened, emollient clyf. (5) the most happy effect. These should be injected every two cracks hours, with one or two drackens of landament in each.

Of the Gravel and Stone.

WHEN small stones are lodged in the kidneys, or discharged along with the urine, the patient is said to be afflicted with the gravel. If one of these stones happens to make a lodgement in the bladder for some time, it accumulates fresh matter, and at length becomes too large to pass off with the urine. In this case the patient is said to have the stone.

CAUSES.—The stone and gravel may be occasioned by high living; the use of strong astringent wines; a sedentary life; lying too hot, soft, or too much on the back; the constant use of water impregnated with earthy or stony particles; aliments of an astringent or windy nature, &c. It may likewise proceed from an hereditary disposition. Persons in the decline of life, and those who have been much afflicted with the gout or rheumatism, are most liable to it.

SYMPTOMS.——Small stones or gravel in the kidneys occafion pain in the loins; sickness, vomiting; and sometimes bloody
urine. When the stone descends into the ureter, and is too large to
pass along with ease, all the above symptoms are increased; the
pain extends towards the bladder; the thigh and leg of the affected
side are benumbed; the testicles are drawn upwards, and the urine
is obstructed.

A stone in the bladder is known from a pain, at the time, as well as before and after making water; from the urine coming away by drops, or stopping suddenly when it was running in a sulftream; by a violent pain in the neck of the bladder upon motion, especially on horseback, or in a carriage on a rough road; from a white, thick, copious, stinking, mucous sediment in the urine; from an itching in the top of the penis; from bloody urine; from an inclination to go to stool during the discharge of urine; from the patient's passing his urine more easily when lying than in an creek posture; from a kind of convulsive motion occasioned by the sharp pain in discharging the last drops of the urine; and lastly, from secunding or searching with the catheter.

REGIMEN.—Perfons afflicted with the gravel or ftone should avoid aliments of a windy or heating nature, as falt meats, four fruits, &c. Their diet ought chiefly to confist of such things as promote the secretion of urine, and keep the body open. Artichokes, asparagus, spinnage, lettuce, parsley, succory, pursane, turnips, potatoes, carrots, and radishes, may be safely eaten. Onions, leeks, and celery, are, in this case, reckoned medicinal. The most proper drinks are whey, butter-milk, milk and water, barleywater; decoctions or insusions of the roots of marsh-mallows, parsley, liquorice, or of other mild mucilaginous vegetables, as linseed. If the patient has been accustomed to generous liquors, he may drink small gin punch.

Gentle exercife is proper; but violent motion is apt to occasion bloody urine. We advise that it should be taken in moderation. Persons afflicted with gravel, often pass a great number of stones after riding on horseback, or in a carriage; but those who have a stone in the bladder, are seldom able to bear these kinds of exercise. Where there is a hereditary tendency to this disease, a sedentary life ought never to be indulged. Were people careful, upon the first symptoms of gravel, to observe a proper regimen of diet, and to take sufficient exercise, it might often be carried off, or at least prevented from increasing; but if the same course which occasioned the disease is persisted in, it must be aggravated.

MEDICINE.—In what is called a fit of the gravel, which is commonly occasioned by a stone sticking in the ureter or some part of the urinary passages, the patient must be bled, warm somentations should likewise be applied to the part affected, emollient anodyne clysters administered, and diluting mucilaginous liquors drank, &c. The treatment of this case has been fully pointed out under the articles, inflammation of the kidneys and bledder, to

which we refer.

Dr. Whyte advises patients, who are subject to frequent fits of gravel in the kidneys, but have no stone in the bladder, to drink, every morning, two or three hours before breakfast, an English pint of oyster or cockle-shell lime-water. The Doctor very justly observes, that though this quantity might be too small to have any sensible effect in dissolving a stone in the bladder, yet it may very

probably prevent its growth.

When a stone is formed in the bladder, the Doctor recommends Alicant soap, and oyster, or cockle-shell lime-water,* to be taken in the following manner: The patient must swallow, every day, in any form that is least disagreeable, an ounce of the internal part of Alicant soap, and drink three or four English pints of oyster, or cockle-shell lime-water. The soap is to be divided into three doses; the largest to be taken fasting in the morning early; the second at noon; and the third at seven in the evening; drinking, above each dose, a large draught of the lime-water; the remainder of which he may take any time betweet dinner and supper, instead of other liquors.

The patient should begin with a smaller quantity of the lime-water and soap, than that mentioned above; at first an English pint the former, and three deachms of the latter, may be taken daily. This quantity, however, he may increase by degrees, and ought to persevere in the use of these medicines, especially if he sinds any abatement of his complaints, for several months; nay, if the some be very large, for years. It may likewise be proper for the patient, if severely pained, not only to begin with the soap and lime-water in small quantities, but to take the second or third lime-water in-

stead of the first. However, after he has been for some time accustomed to these medicines, he may not only take the first water, but, if he finds he can easily bear it, heighten its dissolving power still more by pouring it a second time on fresh calcined shells.

The caultic alkali, or foap lees, is the medicine chiefly in vogue, at present, for the stone. It is of a very acrid nature, and ought, therefore, to be given in some gelatinous or mucilaginous liquor; as veal-broth, new milk, linseed tea, a solution of gum-arabic, or a decoction of marsh-mallow roots. The patient must begin with simal doses of the lees, as thirty or forty drops, and increase by

degrees, as far as the stomach can bear it.*

Though the soap-lees and lime-water are the most powerful medicines which have hitherto been discovered for the stone; yet there are some things of a more simple nature, which in certain cases are found to be beneficial, and therefore deserve a trial. An insusion of the seeds of wild carrot, sweetened with honey, has been found to give considerable ease in cases where the stomach could not bear any thing of an acrid nature. A decoction of raw cossee-berries taken morning and evening, to the quantity of eight or ten ounces, with ten drops of sweet spirit of nitre, has, likewise, been found very essications in bringing away large quantities of earthy matter in slakes. Honey is likewise found to be of considerable service, and may be taken in gruel, or in any other form that is more agreeable.

The only other medicine which we shall mention is the uva urs. It has been greatly extolled of late, both for the gravel and stone. It feems, however, to be, in all respects, inferior to the soap and lime-water; but it is less disagreeable, and has frequently, to my knowledge, relieved gravelly complaints. It is generally taken in powder from half a drachm to a whole drachm, two or three times a-day. It may, however, be taken to the quantity of seven or eight

drachms a-day, with great fafety and good effect.

CHAPTER XXXV.

Of involuntary Discharges of Blood.

INVOLUNTARY discharges of blood often happen from various parts of the body. These are so far from being always dangerous, that they prove often salutary. When such discharges are critical, which is frequently the case in severs, they ought not to be stopped. Nor is it proper at any time to stop them, unless

^{*} The couffic alkali may be prepared by mixing two parts of quicklime with one of potathe, and fuffering them to it and till the lexivium be formed, which must be carefully fittrated before it be used. If the foliation does not happen readily, a small quantity of water may be ad ded to the mixture.

they be so great as to endanger the patient's life. Most people, afraid of the smallest discharge of blood from any part of the body, sly immediately to the use of styptic and astringent medicines, by which means an inslammation of the brain, or some other stall disease, is occasioned, which had the discharge been allowed to go

on, might have been prevented.

Periodical discharges of blood, from whatever part of the body, must not be stopped. They are always the efforts of Nature to relieve herself; and satal diseases have often been the consequence of obstructing them. It may indeed be sometimes necessary to check the violence of such discharges; but even this requires the greatest caution. Instances might be given where the stopping of a small periodical slux of blood from one of the singers, has proved fatal.

In the early period of life, bleeding at the nose is very common. Those who are further advanced in years, are more liable to hamoptoe, or discharge of blood from the lungs. After the middle period of life, hamorrhoidal fluxes are most common; and in the decline of life, discharges of blood from the urinary passages.

Involuntary fluxes of blood may proceed from very different, and often from quite opposite causes. Sometimes they are owing to a particular construction of the body, as a sanguine temperament, a laxity of the vessels, a plethoric habit, &c. At other times they proceed from a determination of the blood towards one particular part, as the head, the hæmorrhoidal veins, &c. They may proceed from an inflammatory disposition of the blood, in which case there is generally some degree of sever: this likewise happens when the slux is occasioned by an obstructed perspiration, or a stricture upon the skin, the bowels, or any particular part of the system.

Hæmorrhages occur in malignant fevers, dyfentery, scurvy, malignant small pox, &c. In these diseases, there are great discharges of blood from different parts of the body. They may likewise be brought on by too liberal a use of medicines, such as canthatides, &c. Food of an acrid or irritating quality may occasion hæmorrhages; as also strong purges and vomits, or any thing that greatly

stimulates the bowels.

Violent passions or agitations of the mind may have this effect. These often cause bleeding at the nose; sometimes an hamorrhage in the brain. Violent efforts of the body, by overstraining or hurting the vessels, may have the same effect, especially when the body is long kept in an unnatural posture, as hanging the head very low, &c.

The cure of an hæmorrhage must be adapted to its cause. When it proceeds from too much blood, or a tendency to inflammation, bleeding, with gentle purges and other evacuations, will be necessary. It will likewise be proper for the patient in this case to live chiefly upon a vegetable diet, to avoid all strong liquors,

and food that is of an acrid, hot or stimulating quality. The body

should be kept cool and the mind easy.

When hæmorrhage comes on in malignant fevers, scurvy, &c. the patient ought to live chiesly upon acid fruits with milk, and vegetables of a nourishing nature, as sago, salop, &c. His drink may be wine diluted with water, and sharpened with the juice of lemon, vinegar, or spirits of vitriol. The best medicine in this case is the Peruvian bark, which may be taken according to the urgency of the symptoms.

When a flux of blood is the effect of acrid food, or of strong stimulating medicines, the cure is to be effected by soft and mucilaginous diet. The patient may likewise take frequently about the bulk of a nutmeg of Locatelli's balsam, or the same quantity

of spermaceti.

When an obstructed perspiration, or a stricture upon any part of the system, is the cause of an hæmorrhage, it may be removed by drinking warm diluting liquors, lying a-bed, bathing the extremities in warm water, &c.

Of Bleeding at the Nose.

THIS is commonly preceded by fome degree of quickness of the pulse, slushing in the face, pulsation of the temporal arteries, heaviness in the head, dimness of the fight, heat and itching of the

nostrils, &c.

To persons who abound with blood, this discharge is very salutary. It often cures a vertigo, the head-ach, a phrenzy, and even an epilepsy. In severs, where there is a great determination of blood towards the head, it is of the utmost service. It is beneficial for inflammations of the liver and spleen, and often in the gout and rheumatism. In all diseases where bleeding is necessary, a spontaneous discharge of blood from the nose is of more service than the same quantity let with a lancet.

In a discharge of blood from the nose, the great point is to determine whether it ought to be stopped or not. It is a common practice to stop the bleeding, without considering weather it be a disease, or the cure of a disease. This conduct proceeds from fear;

but it has often bad, and fometimes fatal confequences.

When a discharge of blood from the nose happens in an inflammatory discase, there is always reason to believe that it may prove salutary; and therefore it should be suffered to go on, at least as long as the patient is not weakened by it.

When it happens to perfons in perfect health who are full of blood, it ought not to be fuddenly stopped, especially if the symptoms of plethora, mentioned above, have preceded it. In this case,

it cannot be flopped without rifking the patient's life.

In fine, whenever bleeding at the note relieves any bad fymptom, and does not proceed to far as to endanger the patient's life, it ought not to be stopped. But when it returns frequently, or continues till the pulse becomes low the extremities begin to grow cold, the lips pale, or the patient complains of being sick or faint, it must immediately be stopped.

For this purpose, the patient should be set nearly upright, with his head reclining a little, and his legs immersed in water about the warmth of new milk. His hands ought sikewise to be put in lukewarm water, and his garters may be tied a little tighter than usual. Ligatures may be applied to the arms, about the place where they are usually made for bleeding, and with nearly the same degree of tightness. These must be gradually slackened as the blood begins to stop, and removed entirely as soon as it gives over.

Sometimes dry lint put up the nostrils will stop the bleeding. When this does not succeed, doshis of lint dipped in strong spirits of wine, may be put up the nostrils, or if that cannot be had, they may be dipped in brandy. Blue vitriol dissolved in water may likewise be used for this purpose, or a tent dipped in the white of an egg, well beat up, may be rolled in a powder made of equal parts of white sugar, burnt allum, and white vitriol, and put up the nostril from whence the blood issues*.

Internal medicines can hardly be of use here, as they have seldom time to operate. It may not however be amiss to give the patient half an ounce of Glauber's salt, and the same quantity of manna, dissolved in sour or sive ounces of barley-water. This may be taken at a draught, and repeated, if it does not operate, in a sew hours. Ten or twelve grains of nitre may be taken in a glass of cold water and vinegar every hour, or oftener, if the stomach will bear it. If a stronger medicine be necessary, a tea-cupful of the tincture of roses, with twenty or thirty drops of the weak spirit of vitriol, may be taken every hour. When these things cannot be had, the patient may drink water, with a little common salt in it, or equal parts of water and vinegar.

If the genitals be immersed for some time in cold water, it will generally stop a bleeding at the nose. I have not known this fail.

Sometimes, when the bleeding is stopped outwardly, it continues inwardly. This is very troublesome, and requires particular attention, as the patient is apt to be sufficient with the blood, especially if he falls asseep, which he is very ready to do after losing a great quantity of blood.

^{*} This intent on is more effectually answered by passing abougee up the bleeding nostril, with a piece of spunge tied near the middle of it. This may be drawn up so as to compress the bleeding vessel, by bringing the inner end of the bougee out of the mouth. (1. C.)

When the patient is in danger of fuffocation from the blood getting into his throut, the passages may be stopped by drawing threads up the nostrils, and bringing them out at the mouth, then fastening pieces of spunge, or small rolls of linen cloth to their extremities; afterwards drawing them back, and tying them on the outside with a sufficient degree of tightness.

After the bleeding is stopped, the patient ought to be kept as easy and quiet as possible. He should not pick his nose, nor take away the tents or clotted blood, till they fall off of their own ac-

cord, and should not lie with his head low.

Those who are affected with frequent bleeding at the nose, ought to bathe their feet often in warm water, and to keep them warm and dry. They ought to wear nothing tight about their necks, to keep their body as much in an erect posture as possible, and never to view any object obliquely. If they have too much blood, a vegetable diet, with now and then a cooling purge, is the safest way to lessen it.

But when the disease proceeds from a relaxed state of the vessels, the diet should be rich and nourishing, as strong broths and jellies, sago-gruel with wine and sugar, &c. Insusions of the bark in wine ought to be taken and persisted in for a considerable time.

Of the Bleeding and Blind Piles.

A discharge of blood from the hamorrhoidal vessels is called the *bleeding piles*. When the vessels only swell, and discharge no blood, but are exceeding painful, the disease is called the *blind piles*.

Persons of a loose spungy sibre, of a bulky size, who live high, and lead a sedentary inactive life, are most subject to this disease. It is often owing to a hereditary disposition. Where this is the case, it attacks persons more early in life than when it is accidental. Men are more liable to it than women, especially those of a sanguine, plethoric, or scorbutic habit, or of a melancholy disposition.

The piles may be occasioned by an excess of blood, by strong aloetic purges, high-seasoned food, drinking great quantities of sweet-wines, the neglect of bleeding, or other customary evacuations, much riding, great costiveness, or any thing that occasions hard or difficult stools. Anger, grief, or other violent passions, will likewise occasion the piles, or sitting on the damp ground. A pair of thin breeches will excite the disorder in a person who is subject to it, and sometimes even in those who never had it before. Pregnant women are often at sitched with it.

A flux of blood, from the anus, is not always to be treated as a disease. It is even more falutary than bleeding at the nose, and often prevents or carries off diseases. It is peculiarly beneficial in the

gout, rheumatism, assima, and hypochondriacal complaints, and

often proves critical in colice, and inflammatory fevers.

In the management of the patient, regard must be had to his habit of body, his age, strength, and manner of living. A discharge which might be excessive, and prove hurtful to one, may be very moderate, and even salutary to another. That only is to be esteemed dangerous which continues too long, and is in such quantity as to waste the patient's strength, hurt the digestion, nutrition, and other functions necessary to life.

When this is the case, the discharge must be checked by a proper regimen, and aftringent medicines. The DIET must be cool but nourishing, consisting chiesly of bread, milk, cooling vegetables and broths. The drink may be chalybeate water, orangewhey, decoctions or infusions of the astringent and mucilaginous plants, as the tormentil root, bistort, the marshmallow-roots, &c.

Old conferve of red rofes is a very good medicine in this case. It may be mixed with new milk, and taken in the quantity of an ounce three or four times a-day. This medicine is in no great repute, owing to its being feldom taken in such quantity as to produce any effects; but when taken as here directed, and duly perfisted in, I have known it perform very extraordinary cures in violent hæmorrhages, especially when affisted by the tincture of roses; a tea-cupful of which may be taken about an hour after every dose of the conserve.

The bark is likewife proper in this case, both as a strengthener and astringent. Half a drachm may be taken in a glass of red winc, sharpened with a few drops of the elixir of vitriol, three or sour

times a-day.

The bleeding piles are fometimes periodical, and return regularly once a-month, or once in three weeks. In this case, they are always to be considered as a salutary discharge, and by no means to be stopped. Some have entirely ruined their health by stopping a periodical discharge of blood from the summershoidal veins.

In the blind piles, bleeding is generally of use. The diet must be light and thin, and the drink cool and diluting. The body must be kept gently open. This may be done by small doses of the flowers of brimstone and cream of tartar. These may be mixed in equal quantities, and a tea-spoonful taken two or three times a-day, or oftener if necessary. Or an ounce of the flours of brimstone, and half an ounce of purified nitre, may be mixed with three or four ounces of the lenitive electuary, and a tea-spoonful of it taken three or four times a-day.

Emollient clysters are here likewise beneficial; but there is sometimes such an astriction of the anus, that they cannot be thrown

up. In this case, a vomit has had a very good effect.

When the piles are exceeding painful and swelled, but discharge nothing, the patient must sit over the steams of warm water. He may likewise apply a linen cloth dipped in warm spirits of wine to the part, or poultices of bread and milk. If these do not produce a discharge, and the piles appear large, leeches must be applied as near them as possible, or, if they will fix upon the piles themselves, so much the better. When leeches will not fix, the piles may be opened with a lancet. The operation is very easy, and is attended

with do danger.

Various ointments, and other external applications, are recommended in the piles; but I do not remember any effects from these worth mentioning. Their principal use is to keep the part mostly, which may be done as well by a soft poultice, or an emollient cataplasm. When the pain however is very gre t, a liniment made of two ounces of emollient ointment, and half an ounce of laudanum, beat up with the yolk of an egg, may be applied.

Spitting of Blood.

WE mean here to treat of the discharge of blood from the lungs only which is called an hamptoe, or spitting of blood. Persons of a slender make, and a lax sibre, who have long necks and strait breasts, are most liable to this disease. It is most common in the spring, and generally attacks people before they arrive at the prime or middle period of life. It is a common observation, that those who have been subject to bleeding at the nose when young, are afterwards most liable to an hame proce.

CAUSES.—An hemoptoe may proceed from excess of blood, from a peculiar weakness in the lungs, or a bad conformation of the breast, excessive drinking, running, wrestling, singing, or speaking aloud. Such as nave weak lungs ought to avoid all violent exertions of that organ, as they value life. hey should likewise guard against violent passions, excessive drinking, and every thing

that occasions a rapid circulation of the blood.

This difease may proceed from wounds of the lungs. These may either be received from without, or they may be occasioned by hard bodies getting into the wind-pipe, and so falling down upon the lungs, and hurting the tender organ. The obstruction of any customary evacuation may occasion a spitting of blood; as neglect of bleeding or purging at the usual scasons, the stoppage of the bleeding piles in men, or the menses in women, &c. It may likewise proceed from a polypus, schirrous concretions, or any thing that obstructs the circulation of the blood in the lungs. It is often the effect of a long and violent cough; in which case, it is generally the forerunner of a consumption. A violent degree of cold suddenly applied to the external parts of the body, will occasion an hæmoptoe. It may likewise be occasioned by breathing air which is too much rarissed to be able properly to expand the lungs. This is often the case with those who work in hot places, as sur-

naces, glass-houses, or the like. It is likewise said to happen to fuch as ascend to the top of very high mountains, as the Peak of Teneriffe, &c.

Spitting of blood is not always a primary disease. It is often only a symptom, and in some diseases not an unfavourable one. This is the case in pleurisies, peripneumonies, and sundry other fevers. In a dropfy, feurvy, or confumption, it is a bad fymptom, and shows

that the lungs are ulcerated.

SYMPTOMS. --- Spitting of blood is generally preceded by a fense of weight, and oppression of the breast, a dry tickling cough, hoarseness, and a difficulty of breathing. Sometimes it is ushered in with shivering, coldness of the extremities, costiveness, great lashitude, slatulence, pain of the back and loins, &c. As these show a general stricture upon the vessels, and a tendency of the blood to inflammation, they are commonly the forerunners of a very copious discharge. The above symptoms do not attend a discharge of blood from the gums or fauces, by which means thefe may always be diffinguished from an hæmoptoe. Sometimes the blood that is spit up is thin, and of a florid red colour; and at other times it is thick, and of a dark or blackish colour; nothing can be inferred from this circumstance, but that the blood has lain a longer or shorter time in the breast before it was discharged.

Spitting of blood, in a strong, healthy person, of a sound constitution, is not very dangerous; but when it attacks the tender and delicate, or persons of a weak lax sibre, it is with dissiculty removed. When it proceeds from a schirrus of the lungs, it is bad. The danger is greater when the discharge proceeds from the rupture of a large vessel than of a small one. When the extravasated blood is not spit up, but lodges in the breast, it corrupts, and greatly increases the danger. When the blood proceeds from an ulcer

in the lungs, it is generally fatal.

REGIMEN. The patient ought to be kept cool and eafy. Every thing that heats the body or quickens the circulation, increases the danger. The mind ought likewise to be soothed, and every occasion of exciting the passions avoided. The diet should be foft, cooling, and flender; as rice boiled with milk, fmall broths, barley-gruels, panado, &c. The diet, in this cafe, can scarce be too low. Even water-gruel is sufficient to support the patient for some days. All strong liquors must be avoided. The patient may drink milk and water, barley-water, whey, butter-milk, and fuch-like. Every thing should be drank cold, and in small quantities at a time. He should observe the strictest silence, or at least speak with a very low voice.

MEDICINE. This, like the other involuntary discharges of blood, ought not to be fuddenly stopped by astringent medicines. More mischief is often done by these, than if it were suffered to go on. It may, however, proceed so far as to weaken the patient, and even endanger his life; in which case, proper means must be

used for restraining it.

The body should be kept gently open by laxative diet; as roafted apples, stewed prunes, and such-like. If these should not have the desired effect, a tca-spoonful of the lenitive electuary may be taken twice or thrice a-day, as is found necessary. If the bleeding proves violent, ligatures may be applied to the extremities, as directed for a bleeding at the nose.

If the patient behot or feverish, bleeding and small doses of nitre will be of use; a scruple or half a drachm of nitre may be taken in a cup of his ordinary drink, twice or thrice a-day. His drink may be sharpened with acids, as juice of lemon, or a few drops of the spirit of vitriol; or he may take frequently a cup of the tine-

ture of roses.

Bathing the feet and legs in lukewarm water, has a very good effect in this difease. Opiates are sometimes beneficial; but must be administered with caution. Ten or twelve drops of laudanum may be given in a cup of barley-water twice a-day, and continued for some time, provided they be found beneficial.

The conferve of roses is a very good medicine in this case, if taken in sufficient quantity, and long enough persisted in. It may be taken to the quantity of three or sour ounces a-day; and, if the patient be troubled with a cough, it should be made into an electuary with balfamic syrup, and a little of the syrup of poppies.

If stronger astringents be necessary, fifteen or twenty drops of the elixir of vitriol may be given in a glass of water, three or four

times a-day.

Those who are subject to frequent returns of this disease, should avoid all excess. Their diet should be light and cool, confishing chiefly of milk and vegetables. Above all, let them beware of vigorous efforts of the body, and violent agitations of the mind.

Vomiting of Blood.

THIS is not fo common as the other discharges of blood already mentioned; but it is very dangerous, and requires particular attention.

Vomiting of blood is generally preceded by pain of the stomach, fickness, and nausea; and is accompanied with great anxiety, and

frequent fainting fits.

This disease is sometimes periodical; in which case, it is less dangerous. It often proceeds from an obstruction of the menses in women; and sometimes from the stopping of the hæmorrhoidal slux in men. It may be occasioned by any thing that greatly stimulates or wounds the stomach, as strong vomits or purges, acrid poisons, sharp or hard substances taken into the stomach, &c. It is

often the effect of obstructions in the liver, the spleen, or some of the other viscera, or external violence, as blows or bruises, or any of the causes which produce inflammation. In hysteric women, vomiting of blood is a very common, but no dangerous symptom.

A great part of the danger in this discase arises from the extravasated blood lodging in the bowels, and becoming putrid, by which a dyscntery or malignant sever may be occasioned. The best way of preventing this, is to keep the body gently open, by frequently exhibiting emollient clysters. Purges must not be given till the discharge is stopt, otherwise they will irritate the stomach, and increase the disorder. All the food and drink must be of a mild cooling nature, and taken in small quantities. Even drinking cold water has sometimes proved a remedy, but it will succeed better when sharpened with the weak spirits of vitriol*. When there are signs of an inflammation, bleeding may be necessary; but the patient's weakness will seldom permit it. Opiates may be of use; but they must be given in very small doses, as sour or sive drops of laudanum twice or thrice a-day.

After the discharge is over, as the patient is generally troubled with gripes, occasioned by the acrimony of the blood lodged in the

intestines, gentle purges will be necessary.

Of Bloody Urine.

THIS is a discharge of blood from the vessels of the kidneys or bladder, occasioned by their being either enlarged, broken, or eroded. It is more or less dangerous according to the different circumstances which attend it.

When pure blood is voided fuddenly without interruption and without pain, it proceeds from the kidneys; but if the blood be in fmall quantity, of a dark colour, and emitted with heat and pain about the bottom of the belly, it proceeds from the bladder. When bloody urine is occasioned by a rough stone descending from the kidneys to the bladder, which wounds the ureters, it is attended with a sharp pain in the back, and difficulty of making water. If the coats of the bladder are hurt by a stone, and the bloody urine follows, it is attended with the most acute pain, and a previous stoppage of urinc.

Bloody urine may likewise be occasioned by falls, blows, the listing or carrying of heavy burdens, hard riding, or any violent motin. It may also proceed from ulcers of the bladder, from a stone

^{*} Clyflers of cold water, with forty or fifty drops of laudanum in each, should be injected, and stillness strictly enjoined. (I. C.)

lodged in the kidneys, or from violent purges, or sharp diuretic

medicines, especially cantharides.

Bloody urine is always attended with fome degree of danger: but peculiarly fo when mixed with purulent matter, as this shows an ulcer some where in the urmary passages. Sometimes this discharge proceeds from excess of blood, in which case it is rather a salutary evacuation than a disease. If the discharge however be very great, it may waste the patient's strength, and occasion an ill habit of body, a dropsy, or a consumption.

The treatment of this disorder must be varied, according to the

different causes from which it proceeds.

When it is owing to a stone in the bladder, the cure depends upon an operation; a description of which would be foreign to our purpose. If attended with a plethora, and symptoms of inflammation, bleeding will be necessary. The body must likewise be kept open by emollient clysters, or cooling purgative medicines; as cream of tartar, manna, or small doses of lenitives electuary.

When bloody urine occurs in malignant diseases, as the small-pox, fevers, or the like, the patient's life depends on the liberal use

of the bark and acids, as already shown.

When there is reason to suspect an ulcer in the kidneys or bladder, the patient's diet must be cool, and his drink of a soft healing, balsamic quality, as decoctions of marsh-mallow roots with liquorice, solutions of gum-arabic, &c. Three ounces of marsh-mallow roots, and half an ounce of liquorice, may be boiled in two English quarts of water to one; two ounces of gum-arabic may be dissolved in the strained liquor, and a tea-cupful of it taken four or five times a-day.

The early use of astringents in this disease has often bad confequences. When the flux is stopped too soon, the grumous blood, confined in the vessels, may produce inflammations, abscels, and ulcers. If the cause be urgent, or the patient seems to suffer from the loss of blood, gentle astringents may be necessary. In this ease, the patient may take three or sour ounces of lime-water, with half an ounce of the tincture of bark, three times a-day, or

more frequent if necessary.

Of the Dysentery, or Bloody Flux.

THIS disease prevails in the spring and autumn. It is most common in marshy countries, where, after hot and dry summers, it is apt to become epidemic. Persons are most liable to it, who are much exposed to the night air, or who live in places where the air is confined and unwholesome. Hence, it often proves satal in camps, on shipboard, in gaols, hospitals, and such-like places.

CAUSES.—The dyfentery may be occasioned by any thing that obstructs the perspiration; as damp beds, wer clothes, unwholesome diet, air, &c. But it is most frequently communicated by infection. This ought to make people extremely cautious, in going near such persons as labour under the disease. Even the since of the patient's excrements has been known to communicate it.

SYMPTOMS.——It is known by a flux of the belly, attended with violent pain of the bowels, a conftant inclination to go to flool, and generally more or less blood in the stools. It begins, like other fevers, with chillness, loss of strength, a quick pulse, great thirst, and an inclination to vomit. The stools are at first greafy and frothy, afterwards they are streaked with blood, and at last, have frequently the appearance of pure blood, mixed with small silaments resembling bits of skin. Worms are sometimes passed both upwards and downwards through the whole course of the disease. When the patient goes to stool, he feels a bearing down, as if the whole bowels were falling out, and sometimes a part of the intestine is actually protruded, which proves exceeding troublesome, especially in children. Flatulency is a troublesome symptom, especially towards the end of the disease.

This disease may be distinguished from a diarrheea or looseness, by the acute pain of the bowels, and the blood which generally appears in the stools; and from the cholera morbus, by its not being attended with such violent and frequent sits of vomit-

ing, &c.

When the dyfentery attacks the old, the delicate, or fuch as have been wasted by the gout, the scurvy, or other lingering diseases, it generally proves satal. Vomiting and hiccuping are bad signs, as they show an inflammation of the stomach. When the stools are green, black, or have an exceeding disagreeable cadaverous smell, the danger is very great, as it shows the disease to be of the putrid kind. It is an unfavourable symptom when clysters are immediately returned; but still more so, when the passage is so obstinately shut, that they cannot be injected. A feeble pulse, coldness of the extremities, with difficulty of swallowing, and convulsions, are signs of approaching death.

REGIMEN.—Cleanlinefs contributes greatly to the recovery of the patient, and the fafety of fuch as attend him. In all contagious difeases, the danger is increased, and the infection spread, by the neglect of cleanliness; but in no one more than this. Every thing about the patient should be frequently changed. The excrements should never be suffered to continue in his chamber, but removed immediately, and buried under ground. A constant stream of fresh air should be admitted into the chamber; and it ought frequently to be sprinkled with vinegar, juice of lemon,

or some other strong acid.

The patient must not be discouraged, but his spirits kept up in

hopes of a cure. Nothing tends more to render any disease mortal, than the sears and apprehensions of the sick. All diseases of this nature have a tendency to sink and depress the spirits, and when that is increased by sears and alarms, from those whom the patient believes to be persons of skill, it cannot fail to have the worst effects.

A flannel waistcoat worn next the skin has often a very good effect in the dysentery. This promotes the perspiration without over-heating the body. Great caution is necessary in leaving it off. I have often known a dysentery brought on by imprudently throwing off a slannel waistcoat before the season was sufficiently warm. For whatever purpose this piece of dress is worn, it should never be left off but in a warm season.

In this difease, the greatest attention must be paid to the patient's diet. Flesh, fish, and every thing that has a tendency to turn putrid or rancid on the stomach, must be abstained from. Apples boiled in milk, water-pap, and plain, light pudding, with broth made of the gelatinous parts of animals, may constitute the principal part of the patient's food. Gelatinous broth not only answers the purpose of food, but likewise of medicine. I have often known dysenteries, which were not of a putrid nature, cured by it after pompous medicines had proved inessectual*.

Another kind of food very proper in the dysentery, which may be used by such as cannot take the broth mentioned above, is made by boiling a few handfuls of fine slour, tied in a cloth, for fix or seven hours, till it becomes as hard as starch. Two or three table-spoonfuls of this may be grated down, and boiled in such a quantity of new milk and water, as to be of the thickness of pap. This may be sweetened to the patient's taste, and taken for his or-

dinary food;

^{*} The manner of making this broth is, to take a sheep's-head and feet, with the skin upon them, and to burn the wool off with a hot iron; afterwards to boil them till the broth is quite a jelly. A little cinnamon or mace may be added, to give the broth an agreeable shavour, and the patient may take a little of it warm with toasted bread, three or four times a-day. A clyster of it may likewise be given twice a-day. Such as cannot use the broth made in this way, may have the head and feet skinned; but we have reason to believe, that this hurts the medicine. It is not our business here to reason upon the nature and qualities of medicine, otherwise this might be shown to possess virtues every way suited to the cure of a dysentery which does not proceed from a putrid state of the humours. Whole samilies have often been cured by it, after they had used many other medicines in vain. It will, however, be proper that the patient take a vonit, and a dose or two of rhubarb, before he begins to use the broth. It will likewise be necessary to continue the use of it for a considerable time, and to make it the principal food.

[†] The learned and humane Dr. Rutherford, late professor of medicine in the university of Edinburgh, used to mention this food in his public lectures with great encomiums. He directed it to be made by tying a pound or two of the finest flour, as tight as possible, in a linear

In dysentery, the patient may be allowed to eat freely of most kinds of ripe fruit; as apples, grapes, gooseberries, currant-berries, strawberries, &c. These may either be eaten raw or boiled, with or without milk, as the patient chooses. The prejudice against struit in this disease, is so great, that many believe it to be the common cause of dysenteries. This is an egregious mistake. Both reason and experience show, that good fruit is one of the best medicines, both for the prevention and cure of the dysentery. Good fruit is in every respect calculated to counteract that tendency to putresaction, from whence the most dangerous kind of dysentery proceeds. The patient, in such a case, ought to be allowed to eat as much fruit as he pleases, provided it be ripe*.

The most proper drink in this disorder, is whey or flaxsed tea. The dysentery has often been cured by the use of clear whey alone. It may be taken both for drink and in form of clyster. When whey cannot be had, barley-water sharpened with cream of tartar may be drank, or a decoction of barley and tamarinds; two ounces of the former and one of the latter, may be boiled in two English quarts of water to one. Warm water, water-gruel, or water wherein hot iron has been frequently quenched, are all very proper, and may be drank in turns. Camomile-tea, if the stomach will bear it, is an exceeding proper drink. It both strengthens the stomach, and by its antiseptic quality, tends to prevent a mortification of the bowels.

MEDICINE.—At the beginning of this difease, it is always necessary to cleanse the first passages. For this purpose, a vomit of ipecacuanha must be given, and wrought off with weak camomile tea. Strong vomits are seldom necessary here. A scruple, or at most, half a drachm of ipecacuanha, is generally sufficient for an adult, and sometimes a sew grains will suffice. The day after the

rag, afterwards to dip it frequently in water, and to dridge the outlide with flour, till a cake or cruft was formed around it, which prevents the water from foaking into it while boiling. It is then to be boiled till it becomes a hard, dry mass, as directed above. This, when mixed with milk and water, will not only answer the purpose of food, but may likewise be given in clysters.

* I lately faw a young man who had been feized with a dyfentery in North-America. Many things had been tried there for his relief, but to no purpose. At length, tired out with disappointments from medicine, and reduced to skin and bone, he came over to Britain, rather with a view to die among his relations, than with any hopes of a cure. After taking fundry medicines here with no better fucces than abroad, I advised him to leave off the use of drugs, and to trust entirely to a diet of milk and fruits, with gentle exercise. Strawberries was the only fruit he could procure at that season. These he are with milk twice, and sometimes thrice a-day. The consequence was, that in a short time his stools were reduced from upwards of twenty in a-day, to three or four, and sometimes not so many. He used the other truits as they came in, and was in a few weeks so well as to leave that part of the country where I was, with a view to return to America.

vomit, half a drachm, or two fcruples of rhubarb must be taken; or, what will answer the purpose rather better, an ounce or an ounce and a half of Epsom falts. This dose may be repeated every other day, for two or three times. Afterwards small doses of ipecacuanha may be taken for some time. Two or three grains of the powder may be mixed in a table-spoonful of the syrup of poppies, and taken three times a-day.

These evacuations, and the regimen prescribed above, will often be sufficient to effect a cure. Should it, however, happen other-

wife, the following aftringent medicines may be used.

A clyster of starch or fat mutton-broth, with thirty or forty drops of liquid laudanum in it, may be administered twice a-day. At the same time an ounce of gum-arabic, and half an ounce of gum-tragacanth, may be dissolved in an English pint of barley-water, over a slow sire, and a table-spoonful of it taken every hour.*

If these have not the desired effect, the patient may take four times a day, about the bulk of a nutmeg of the Japonic confection, drinking after it a tea-cupsul of the decoction of logwood.

Persons who have been cured of this disease are very liable to a relapse; to prevent which, great circumspection as to diet is necessary. The patient must abstain from all fermented liquors, except now-and-then a glass of good wine; but he must drink no kind of malt liquor. He should likewise abstain from animal sood, as fish and sless, and live principally on milk and vegetables.

Gentle exercife and wholesome air are likewise of importance. The patient should go to the country as soon as his strength will permit, and take exercise daily on horseback, or in a carriage. He may likewise use bitters insused in wine or brandy, and may drink twice a-day a gill of lime-water mixed with an equal quantity of new milk.

When dysenteries prevail, we would recommend a strict attention to cleanliness, a spare use of animal sood, the free use of sound ripe fruits and other vegetables. The night air is to be carefully

^{*}The indications of cure in this difease are more effectually answered, by giving a drachm of Glauber salts every hour, so as to clear the bowels of hardened excrement, by exciting brisk purging. This plan should be continued until the griping and tenesmus subside, interposing every night at bed-time one or two grains of opium, combined with two or three of specacuanha to quiet the bowels and promote perspiration. If the patient cannot take salts, one table spoonful of castor oil should be given, and repeated every two or three hours, until it produces the defired effect of rendering the stools more copious; and after they appear in lumps or balls, the cure must be followed up, by giving infusion of bark, as frequent and in as large dose as the stomach will bear. This practice is equally applicable to children, by accommodating the sloses of medicin to their age. (1. C.)

⁺ See Appendix, Decoction of Logwood.

avoided, and all communication with the fick. Bad fmells are to be shunned, especially those which arise from putrid animal substances. The necessaries where the fick go should be carefully

avoided by those in health.

Sundry other fluxes of the belly, as the LIENTERY and CŒ-LIAC PASSION, though less dangerous than the dysentery, yet merit consideration. These diseases generally proceed from a relaxed state of the stomach and intestines, which is sometimes so great, that the food passes through them without almost any sensible alteration; and the patient dies merely from the want of nourishment.

When the lientery or colliac passion succeeds to a dysentery, the case is bad. They are always dangerous in old age, especially when the constitution has been broken by excess or acute diseases. If the stools be very frequent, and quite crude, the thirst great, with little urine, the mouth ulcerated, and the sace marked with

spots of different colours, the danger is very great.

The treatment of the patient is in general the same as in the dysentery. In all obstinate fluxes of the belly, the cure must be attempted, by first cleansing the stomach and bowels with gentle vomits and purges; afterwards, such diet as has a tendency to heal and strengthen the bowels, with opiates and astringent medicines, will generally perfect the cure.

The same observation holds with respect to a TENESMUS, or frequent desire of going to stool. This disease resembles the dysentery so much, both in its symptoms and method of cure, that

we think it needless to infift upon it.

CHAPTER XXXVI.

Of the Head-Ach.

CHS and pains proceed from very different causes, and may affect any part of the body; but we shall point out those only which occur most frequently, and are attended with the

greatest danger.

When the head-ach is slight, and affects a particular part of the head only, it is called cephalalgia; when the whole head is affected, cephalae; and when on one fide only, hemicrania. A fixed pain in the forchead, which may be covered with the end of the thumb,

is called the clavis hystericus.

There are also other distinctions. Sometimes the pain is internal, sometimes external; sometimes it is an original disease, and at other times only symptomatic. When the head-ach proceeds from a hot bilious habit, the pain is very acute and throbbing, with a considerable heat of the part affected. When from a cold

phlegmatic habit, the patient complains of a dull heavy pain, and has a fense of coldness in the part. This kind of head-ach is

fometimes attended with a degree of stupidity or folly.

Whatever obstructs the free circulation of the blood through the vessels of the head, may occasion a head-ach. In persons of a full habit, who abound with blood, or other humours, the head-ach often proceeds from the suppression of customary evacuations; as bleeding at the nose, sweating of the feet, &c. It may likewise proceed from any cause that determines a great flux of blood towards the head; as coldness of the extremities, or hanging down the head for a long time. Whatever prevents the return of the blood from the head will occasion a head-ach; as looking long obliquely at any object, wearing any thing tight about the neck, or the like.

When a head-ach proceeds from the stoppage of a running at the nose, there is a heavy, obtuse, pressing pain in the fore-part of the head, in which there seems to be such a weight, that the patient can scarce hold it up. When it is occasioned by the causic matter of the veneral disease, it generally affects the skull, and often produces a caries of the bones.

Sometimes the head-ach proceeds from the repulsion or retrocession of the gout, the erysipelas, the small pox, measles, itch, or other eruptive diseases. What is called a *hemicrania* generally proceeds from crudities or indigestion. Inanition, or emptines, will also occasion head-achs, as in nurses who gave suck too long,

or who did not take a fufficient quantity of folid food.

There is likewise a most violent, fixed, constant, and almost intolerable head-ach, which occasions great debility both of body and mind, prevents sleep, destroys the appetite, causes a vertice, dimness of sight, a noise in the ears, convulsions, epileptic sits, and sometimes vomiting, costiveness, coldness of the extremities, &c.

The head-ach is often symptomatic in continual and intermitting fevers, especially quartans. It is likewise a very common

fymptom in hysteric and hypochondriac complaints.

When a head-ach attends an acute fever, with pale urine, it is an unfavourable fymptom. In excessive head-achs, coldness of the extremities is a bad fign.

When the disease continues long, and is very violent, it often terminates in blindness, an apoplexy, deasness, a vertigo, the palfy,

epilepfy, &c.

The cool regimen in general is to be observed. The diet ought to consist of such emollient substances as will correct the acrimony of the humours, and keep the body open; as apples boiled in milk, spinage, turnips, and such-like. The drink ought to be diluting; as barley-water, insusions of mild mucilaginous vegetables, decoctions of the sudorific woods, &c. The feet and legs ought to be kept warm, and frequently bathed in lukewarm water; the head should be shaved, and bathed with water and vinc-

gar. The patient ought as much as possible to keep in an erect

posture, and not to lie with his head too low.

When the head-ach is owing to excess of blood, or a bilious constitution, bleeding is necessary. The patient may be bled in the jugular vein, and the operation repeated if there be occasion. Cupping also, or the application of leeches to the temples, and behind the ears, will be of service: Afterwards a blister may be applied to the neck, behind the ears, or to any part of the head that is most affected. In some cases it will be proper to blister the whole head. In persons of a gross habit, issues or perpetual blisters will be of service. The body ought likewise to be kept open by gentle laxatives.

But when there is a dull, heavy, continual pain in the head, which will neither yield to bleeding nor gentle laxatives, then more powerful purgatives are necessary, as pills made of aloes, resin of jalap, or the like. It will also be necessary in this case to blister the whole head, and to keep the back part of the neck

open for a confiderable time by a perpetual blifter.

When the head-ach is occasioned by the stoppage of a running at the nose, the patient should frequently smell to a bottle of volatile salts; he may likewise take snuff, or any thing that will irritate the nose, so as to promote a discharge from it; as the herb mastich, ground-ivy, &c.

A hemicrania, especially a periodical one, is generally owing to a foulness of the stomach, for which gentle vomits must be administered, as also purges of Glauber salts or jalap. After the bowels have been sufficiently cleared, chalybeate waters, and such

bitters as strengthen the stomach, will be necessary.

When the head-ach is fo intolerable as to endanger the patient's life, or is attended with continual watching, delirium, &c. recourse must be had to opiates. These, after proper evacuations by clysters or mild purgatives, may be applied both externally and internally. The affected part may be rubbed with Bate's anodyne balsam, or a cloth dipped in it may be applied to the part. The patient may, at the same time, take twenty drops of laudanum, in a cup of valerian or penny-royal tea, twice or thrice a-day. This is only to be done in case of extreme pain. Proper evacuations ought always to accompany and follow the use of opiates*.

When the patient cannot bear the loss of blood, his feet ought frequently to be bathed in luke-warm water, and well rubbed with a coarse cloth. Cataplasms with mustard or horseradish ought likewise to be applied to them. This course is peculiarly necessary when the pain proceeds from a gouty humour affecting

the head.

^{*} When the pain is very violent, and does not yield to finall doses of landanum, the quantity may be increased. I have known a patient in extreme pain take three hundred drops in twenty-four hours; but such doses ought only to be adminishered by persons of skill.

When the head-ach is occasioned by great heat, hard labour, or violent exercise of any kind, it may be allayed by cooling me-

dicines; as the faline draughts with nitre, and the like.

A little of Ward's effence, dropt into the palm of the hand, and applied to the forehead, will sometimes remove a violent headach; and so will æther, when applied in the same manner.

Of the Tooth-Ach.

THIS disease needs no description. It has great assumity with the rheumatism, and often succeeds pains of the shoulders and

other parts of the body.

It may proceed from obstructed perspiration, or any of the other causes of inflammation, from neglecting some part of the usual coverings of the head; or from sitting with the head bare near an open window, or exposing it any how to a draught of cold air. Food or drink taken either too hot or too cold is very hartful to the teeth. Great quantities of fugar, or other sweetmeats, are likewise hurtful. Nothing is more destructive to the teet's thin eraking nuts, or chewing any kind of hard substances. Picking the teeth with pins, needles, or any thing that may hurt the enginel with which they are covered, does great mischief, as the tooth is fure to be spoiled whenever the air gets into it. Breeding women are very subject to the tooth-ach, especially during the first three or four months of pregnancy. The tooth-ach often proceeds from scorbutic humours affecting the gums. In this case, the teeth are sometimes wasted, and fall out without any confiderable degree of pain. The more immediate cause of the tooth-ach is a rotten or carious tooth.

In order to relieve the tooth-ach, we must first endeavour to lessen the flux of humours to the part affected. This may be done by mild purgatives, scarifying the gums, or applying leaches to them, and bathing the feet frequently with warm water. The perspiration ought likewise to be promoted, by drinking freely of weak wine-whey, or other diluting liquors, with small doses of nitre. Vomits, too, have often an exceeding good effect in the tooth-ach. It is seldom safe to administer opiates, or any kind of heating medicines. or even to draw a tooth, till proper evacuations have been premised; and these alone will often effect the cure.

If this fails, and the pain and inflammation still increase, a appuration may be expected; to promote which, a toasted sig slat the held between the gum and the cheek; bays silled with bried camomile slowers, slowers of elder, or the like, may be applied near the part affected, with as great a degree of warming the patient can bear, and renewed as they grow cool: the patient

may likewife receive the steams of warm water into his mouth, through an inverted funnel, or by holding his head over the

mouth of a porringer filled with warm water, &c.

Such things as promote the discharge of saliva, or cause the patient to spit, are generally of service. For this purpose, bitter, hot, or pungent vegetables may be chewed; as gentian, calamus aromaticus, or pellitory of Spain. Allen recommends the root of yellow water flour-de-luce in this case. This root may either be rubbed upon the tooth, or a little of it chewed. Brookes says he hardly ever knew it fail to ease the tooth-ach. It ought however to be used with caution.

Many other herbs, roots and feeds, are recommended for curing the tooth-ach; as the leaves or roots of millefoil or yarrow chewed, tobacco smoked or chewed, staves acre, or the feeds of mustard chewed, &c. These bitter, hot, and pungent things, by occasioning a greater flow of faliva, frequently give ease in the tooth-ach.

Opiates often relieve the tooth-ach. For this purpose, a little cotton wet with laudanum may be held between the teeth; or a piece of slicking-plaister, about the bigness of a shilling, with a bit of opium in the middle of it, of a size not to prevent the slicking of the other, may be laid on the temporal artery, where the pulsation is most sensible. De la Motte affirms, that there are sew cases wherein this will not give relief. If there be a hollow tooth, a sinall pill made of equal parts of camphire and opium, put into the hollow, is often beneficial. When this cannot be had, the hollow tooth may be filled with gum mastich, wax, lead, or any substance that will stick in it, and keep out the external air.

Few applications give more relief in the tooth-ach than a blifter applied between the shoulders; or rather put behind the ears, and made so large as to cover a great part of the lower jaw.

When a tooth is carious, it is often impossible to remove the pain without extracting it; and, as a spoilt tooth never becomes found again, it is prudent to draw it soon, lest it should affect the rest. Tooth-drawing, like bleeding, is very much practised by mechanics; the operation is not without danger, and ought always to be performed with care. A person unacquainted with the structure of the parts will be in danger of hurting the jawbone, or of drawing a sound tooth instead of a rotten one*.

When the tooth-ach returns periodically, and the pain chiefly

affects the gums, it may be cured by the bark.

Some pretend to have found great benefit from the application of an artificial magnet. If it be found to answer, though only in particular cases, it certainly describes a trial, as it is attended with

This may always be prevented by the operator firiking upon the teeth with any piece of metal, as this never fails to excite pain in the carious tooth.

no expence, and no harm. Electricity has likewise been recommended, and particular instruments have been invented for sending a shock through the affected tooth.

Persons who have returns of the tooth-ach at certain seasons, as spring and autumn, might often prevent it by taking a purge

at these times.

Keeping the teeth clean tends to prevent the tooth-ach. The best method is to wash them daily with salt and water, a decoction of the bark, or with cold water alone. All brushing and scraping of the teeth is dangerous, and unless it be performed with great care, does mischief.

Of the Ear-Ach.

THIS diforder chiefly affects the membrane which lines the inner cavity of the ear called the *meatus auditorius*. It often occafions great restlessness, anxiety, and even delirium. Epileptic sits, and other convulsive disorders, have been brought on by extreme

pain in the ear.

The ear-ach may proceed from any of the causes which produce inflammation. It often proceeds from a sudden suppression of perspiration, or from the head being exposed to cold when covered with sweat; or from worms, or other insects getting into the ear, or being bred there; or from any hard body sticking in the ear. Sometimes it proceeds from the translation of morbisc matter to the ear. This often happens in the decline of malignant severs, and occasions deafness, which is generally reckoned a favourable symptom.

When the ear-ach proceeds from infects, or any hard body sticking in the ear, every method must be taken to remove them as soon as possible. The membranes may be relaxed by dropping into the ear, oil of sweet almonds, or olive oil. Afterwards the patient should be made to sneeze, by taking snuff, or some strong ternutatory. If this should not force out the body, it must be extracted by art. I have seen insects, which had got into the ear, come out of their own accord upon pouring in oil, which

they cannot bear.

When the pain of the ear proceeds from inflammation, it must be treated like other topical inflammations, by a cooling regimen, and opening medicines. Bleeding at the beginning, either in the arm or jugular vein, or cupping in the neck, will be proper. The ear may likewise be somented with steams of warm water; or flannel bags filled with boiled mallows and camomile flovers may be applied to it warm; or bladders filled with warm milk and water. An exceeding good method of somenting the

car is to apply it close to the mouth of a jug filled with warm wa-

ter, or a strong decoction of camomile-slowers.

The patient's feet should be frequently bathed in lukewarm water, and he ought to take small doses of nitre and cream tartar, half a drachm of the latter, and ten grains of the former three times a-day. His drink may be whey, or a decoction of barley and liquorice with figs or raisins. The parts behind the ear ought frequently to be rubbed with camphorated oil, or a little of the volatile liniment.

When the inflammation cannot be discussed, a poultice of bread and milk, or roasted onions, may be applied to the ear, and frequently renewed, till the abscess breaks, or can be opened. Afterwards the humours may be diverted from the part by gentle laxatives, blisters, or issues; but the discharge must not be sud-

denly dried up by any external application.

Pain of the Stomach, &c.

THIS may proceed from various causes; as indigestion; wind; the acrimony of the bile; sharp, acrid, or poisonous substances taken into the stomach, &c. It may like ife be occasioned by worms; the stoppage of customary evacuations; a translation of gouty matter to the stomach, the bowels, &c.

Women in the decline of life are very liable to pains of the stomach and bowels, especially such as are afflicted with hysteric complaints. It is likewise very common to hypochondriac men of a sedentary and luxurious life. In such persons, it often proves so

extremely obstinate as to bassle medicine.

When the pain of the stomach is most violent after eating, there is reason to suspect that it proceeds from some fault either in the digestion or the food. In this case, the patient ought to change his diet, till he finds what kind of food agrees best with his stomach, and should continue chiefly to use it. If a change of diet does not remove the complaint, the patient may take a gentle vomit, and afterwards a dose or two of rhubarb. He ought likewise to take an infusion of camomile slowers, or tome other stomachic bitter, either in wine or water. I have often known exercise remove his complaint, especially failing, or a long journey on horseback, or in a carriage.

When a pain of the stomach proceeds from statulency, the patient is constantly belching up wind, and feels an uneasy distention of the stomach after meals. This is the most deplorable disease, and is seldom thoroughly cured. In general, the patient ought to avoid all windy diet, and every thing that sours on the stomach, as greens, roots, &c. This rule admits of some exceptions. Ma-

my persons very much troubled with wind, have received great benefit from eating parched pease, though that grain is generally

supposed to be of a windy nature*.

This complaint may likewife be greatly relieved by labour, especially digging, reaping, mowing, or any kind of active employment by which the bowels are alternately compressed and dilated. The most obstinate case of this kind I ever met with, was in a person of a sedentary occupation, whom I advised, after he had tried every kind of medicine in vain, to turn gardener; which he did, and has ever since enjoyed good health.

When a pain of the stomach is occasioned by the swallowing of acrid or poisonous substances, they must be discharged by vomit; this may be excited by butter, oils, or other soft things, which sheath and defend the stomach from the acrimony of its

contents.

When a pain of the stomach proceeds from a translation of gouty matter, warm cordials are necessary, as generous wines, French brandy, &c. Some in this case have drank a whole bottle of brandy or rum in a few hours, without being in the least intoxicated, or even feeling the stomach warmed by it. It is impossible to ascertain the quantities necessary upon these occasions. This must be lest to the feelings and discretion of the patient. The safer way, however, is, not to go too far. When there is an inclination to vomit, it may be promoted by drinking an infusion of camomile slowers, or carduus benedictus.

If a pain of the stomach proceeds from the stoppage of customary evacuations, bleeding will be necessary, especially in sanguine and very sull habits. It will likewise be of use to keep the body gently open by mild purgatives; as castor oil, senna, &cc. When this disease affects women, in the decline of life, after the stoppage of the menses, making an issue in the leg or arm will be of pe-

culiar service.

When the disease is occasioned by worms, they must be destroyed, or expelled by means recommended in the following section:

When the stomach is greatly relaxed, and the digestion bad, which often occasion slatulencies, the elixir of vitriol will be of singular service. Fifteen or twenty drops of it may be taken in a

glass of wine or water twice or thrice a-day.

Persons afflicted with statulency are generally unhappy unless they be taking some purgative medicines; these, though they may give immediate ease, weaken and relax the stomach and bowels, and consequently increase the disorder. Their best method is to mix purgatives and stomachies together. Equal parts of bark and rhubarb may be insused in brandy or wine, and taken in such quantity as to keep the body gently open.

^{*} These are prepared by theeping or soaking pease in water, and afterwards drying them in a pot ot kiln till they become quite hard. They may be used at pleasure.

CHAPTER XXXVII.

Of Worms.

werm; the teres, or round and long worm; and the afcarides, or round or short worm. There are many other kinds of worms found in the human body; but as they proceed, in a great measure, from similar causes, have nearly the same symptoms, and require almost the same method of treatment as these already mentioned, we shall not spend time in enumerating them.

The tape-worm is white, very long, and full of joints. It is generally bred either in the stomach or small intestines. The round and long worm is likewise bred in the small guts, and sometimes in the stomach. The round and short worms commonly lodge in the restum, or what is called the end gut, and occasion a disagreeable

itching about the feat.

The long round worms occasion squeamistines, vomiting, a disagreeable breath, gripes, looseness, swelling of the belly, swoonings, loathing of food, and at other times a voracious appetite, a dry cough, convulsions, epileptic fits, and sometimes a privation of speech. These worms have been known to perforate the intestines, and get into the cavity of the belly. The effects of the tapeworm are nearly the same with those of the long and round, but rather more violent.

Andry fays, the following fymptoms particularly attend the folium, which is a species of the tape-worm, viz. swoonings, privation of speech and a voracious appetite. The round worms called afearides, besides an itching of the anus, cause swoonings, and te-

nefmus, or an inclination to go to stool.

CAUSES.—Worms may proceed from various causes, but they are seldom sound except in relaxed stomachs, where the digestion is bad. Sedentary persons are more liable to them than the active and laborious. Those who eat great quantities of unripe fruit, or who live much on raw herbs and roots, are generally subject to worms. There seems to be a hereditary disposition in some persons to this disease. I have often seen all the children of a family subject to worms of a particular kind. They seem likewise frequently to be owing to the nurse. Children of the same family, nursed by one woman, have often worms, when those nursed by another have none.

SYMPTOMS.—The common fymptoms of worms are, paleness of the countenance, and at other times, an universal slushing of the face; itching of the nose; this however is doubtful, as children pick their noses in all diseases; starting, and grinding of the teeth in sleep; swelling of the upper lip; the appetite

fometimes bad, at other times quite voracious; loofeness; a four or stinking breath; a hard swelled belly; great thirst; the urine frothy, and sometimes of a whitish colour; griping, or colic pains; an involuntary discharge of saliva, especially when assepting palpitations of the fide, with a dry cough, and unequal pulle; palpitations of the heart; swoonings; drowsiness; cold sweats; palfy; epileptic fits, with many other unaccountable nervous symptoms, which were formerly attributed to witcherast, or the instance of evil spirits. Small bodies in the excrements resembling melon or cucumber feeds are symptoms of the tape-worm.

I lately faw some very surprising effects of worms in a girl about five years of age, who used to lie for whole hours as if dead. She at last expired, and, upon opening her body, a number of the teres, or long round worms, were found in her guts, which were considerably inflamed; and what anatomists call an intus susceptio, or involving of one part of the gut within another, had taken place in no less than four different parts of the intestinal canal*

MEDICINE. — Though numberless medicines are extolled for expelling and killing worms,† yet no disease more frequently baffles the physician's skill. In general, the most proper medicines for their expulsion are strong purgatives; and to prevent their breeding, stomachic bitters, with now and then a glass of good wine.

The best purge for an adult is jalap and calomel. Five and twenty or thirty grains of the former with six or seven of the latter, mixed in syrup, may be taken early in the morning, for a dose. It will be proper that the patient keep the house all day, and drink nothing cold. The dose may be repeated once or twice a week, for a fortnight or three weeks. On the intermediate days, the patient may take a drachm of the powder of tin, twice or three a-day, mixed with syrup or honey.

Those who do not chuse to take calomel may make use of the bitter purgatives; as aloes, hiera piera, tin cure of senna, and

rhubarb, &c.

Oily medicines are fometimes found beneficial for expelling worms. An ounce of fallad oil and a table-spoonful of common falt may be taken in a glass of red port wine thrice a-day or oftener, if the stomach will bear it. But the more common form of using oil is in clysters. Oily clysters sweetened with sugar or ho-

- * That worms exist in the human body, there can be no doubt; and that they must sometimes be considered as a disease, is equally certain; but this is not the case so often as people imagine. The idea that worms occasion many diseases, gives an opportunity to the professed worm doctors of imposing on the credulity of mankind, and doing much using their. They find worms in every case, and liberally throw in their antidotes, which generally consist of strong drastic purges: I have known these given in delicate constitutions to the destruction of the patient, where there was not the least symptom of worms.
- † A medical writer, of the present age, has enumerated upwards of fifty British plants, all celebrated for killing and expelling worms.

ney, are very efficacious in bringing away the short round worms

called ascarides, and likewise the teres.

The Harrowgate water is an excellent medicine for expelling worms, especially the ascarides. As this water is impregnated with fulphur, we may hence infer, that sulphur alone must be a good medicine in this case; which is found to be a fact. Many practitioners give flour of sulphur in very large doses, and with great success. It should be made into an electuary with honey or treacle, and taken in such quantity as to purge the patient.

Where Harrowgate water cannot be obtained, fea-water may be used. If sea-water cannot be had, common salt dissolved in water may be drank. I have often seen this used by country nurses with very good effect. Some sour of sulphur may be taken over

night, and the falt-water in the morning.

But worms, though expelled, will foon breed again, if the stomach remains weak and relaxed; to prevent which, we would recommend the bark. Half a drachm of bark in powder may be taken in a glass of red Port wine three or four times a-day, after the above medicines have been used. Lime-water is likewise good for this purpose, or a table-spoonful of the chalybeate wine taken twice or thrice a-day. Insusions or decoctions of bitter herbs may likewise be drank; as the insusions of tansy, water tresoil, camomile-slowers, tops of wormwood, the lesser centaury, &c.

For a child of four or five years old, fix grains of rhubarb. five of jalap, and two of calomel, may be mixed in a fpoonful of fyrup or honey, and given in the morning. The child should keep the house all day, and take nothing cold. This dose may be repeated twice a-week for three or four weeks. On the intermediate days, the child may take a scruple of powdered tin, and ten grains of ethiops mineral in a spoonful of treacle twice a-day. This dose must be increased or diminished according to the age of the pa-

tient.

Biffet fays, the great baftard black hellebore, or bear's fost, is a most powerful vermifuge for the long round worms. He orders the decoction of about a drachm of the green leaves, or about fifteen grains of the dried leaves in powder, for a dose to a child between four and seven years of age. This dose is to be repeated two or three times. He adds that the green leaves, made into a syrup, with coarse sugar, is almost the only medicine he has used for round worms for three years past. Before pressing out the juice, he moistens the bruised leaves with vinegar, which corrects the medicine. The dose is a tea-spoonful at bed-time, and one or two next morning.

I have frequently known these big bellies, which in children are commonly reckoned a fign of worms, quite removed, by giving them white soap in their pottage, or other food. Tansy, garlie, and rue, are all against worms, and may be used various ways. We might here mention many other plants, both for external and in-

ternal use, as the cabbage-bark, &c. but think the powder of tin, and the purges of jalap and calomel, are more to be depended on.

Ball's purging vermifuge powder is a very powerful medicine. It is made of equal parts of rhubarb, feammony, and calomel, with as much double-refined fugar as is equal to the weight of all the other ingredients. These must be well mixed together, and reduced to a fine powder. The dose for a child, is from ten grains to twenty, once or twice a-week. An adult may take a drachm for a dofe*.

Parents, who would preferve their children from worms, ought to allow them plenty of exercise in the open air; to take care that their food be wholesome and sufficiently solid; and as far as posfible, to prevent their eating raw herbs, roots, or green trashy fruits. It will not be amiss to allow a child who is subject to worms, a glass of red wine after meals; as every thing that braces and strengthens the stomach, is good both for preventing and expelling thefe vermint.

CHAPTER XXXVIII.

Of the Jaundice.

HIS difease is first observable in the white of the eye, which appears yellow. Afterwards the whole skin puts on a vellow appearance. The urine too is of a fassron hue, and dies a white cloth of the same colour. There is likewise a species of this dis-

ease called the black jaundice.

CAUSES The immediate cause of the jaundice is an obstruction of the bile. The remote or occasional causes are, the bites of poisonous animals, as the viper, mad dog, &c. the bilious or hysteric colic; violent passions, as grief, anger, &c. Strong purges or vomits will likewise occasion the jaundice. Sometimes it proceeds from obstinate agues, or from that disease being prematurely stopped by astringent medicines. In infants, it is often occa-

* A powder for the tape-worm refembling this was long kept a fecret on the continent; it was lately purchased by the French King, and will be found under the article Powder, in the Appendix.

† It is necessary to warn people of their danger who buy cakes, powders, and other worm medicines, at random, from quacks, and give them to their children without proper care. The principal ingredient in most of these medicines is mercury, which is never to be trifled with. I lately saw a shocking instance of the danger of this conduct. A girl who had taken a dose of worm powder, bought of a travelling chack want out and perhaps was so improved as to drink cold water. quack, went out, and perhaps was fo imprudent as to drink cold water during its operation. She immediately swelled, and died on the following day, with all the symptoms of having been possoned.

fioned by the meconium not being sufficiently purged off. Pregnant women are very subject to it. It is likewise a symptom in several kinds of sever. Catching cold, or the stoppage of customary evacuations, as the menses, the piles, issues, &c. will occasion the

iaundice.

SYMPTOMS.—The patient at first complains of excessive weariness, and has great aversion to every kind of motion. His skin is dry, and he generally feels a kind of itching or pricking pain over the whole body. The stools are of a whitish or clay colour, and the urine, as was observed above, is yellow. The breathing is dissicult, and the patient complains of an unusual load or oppression on his breast. There is a heat in the nostrils, a bitter taste in the mouth, loathing of food, sickness at the stomach, vomiting, slatulency, and other symptoms of indigestion.

If the patient be young, and the disease complicated with no other malady, it is seldom dangerous; but in old people, where it continues long, returns frequently, or is complicated with the dropfy, or hypochondriac symptoms, it generally proves satal.

REGIMEN.—The diet should be cool, light, and diluting, consisting chiesly of ripe fruits and mild vegetables; as apples boiled or roasted, stewed prunes, preserved plumbs, boiled spinage, &c. Veal or chicken-broth, with light bread, are likewise very proper. Many have been cured by living almost wholly for some days on raw eggs. The drink should be butter-milk, whey sweetened with honey, or decoctions of cool opening vegetables; or marshmallow roots, with liquorice, &c.

The patient should take as much exercise as he can bear, either on horseback, or in a carriage; walking, running, and even jumping, are likewise proper, provided he can bear them without pain, and there be no symptoms of inflammation. Patients have been often cured of this disease by a long journey, after medicines had

proved ineffectual.

Amusements are likewise of great use in the jaundice. The discase is often occasioned by a sedentary life, joined to a dull melancholy disposition. Whatever therefore tends to promote the circulation, and to cheer the spirits, must have a good effect; as

dancing, laughing, finging, &c.

MEDICINE.——If the patient be young, of a full fanguine habit, and complains of pain in the right fide about the region of the liver, bleeding will be necessary. After this a vomit must be administered, and if the disease proves obstinate, it may be repeated once or twice. No medicines are more beneficial in the jaundice than vomits, especially where it is not attended with instantane. Half a drachm of ipecacuanha in powder will be a sufficient dose for an adult. It may be wrought off with weak camomile-tea, or lukewarm water. The body must likewise be kept open by taking a sufficient quantity of Castile soap, or the pills for the jaundice recommended in the appendix.

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Fomenting the parts about the region of the stomach and liver, and rubbing them with a warm hand or slessh-brush, are likewise beneficial; but it is still more so for the patient to sit in a bath of warm water up to the breast. He ought to do this frequently, and should continue in it as long as his strength will permit.

Many dirty things are recommended for the cure of the jaundice; as lice, millepedes, &c. But these do more harm than good, as people trust to them, and neglect more valuable medicines; besides, they are seldom taken in sufficient quantity to produce any essential end of them. People always expect that such things should act as charms, and consequently seldom persist in the use of them. Vomits, purges, somentations, and exercise, will seldom fail to cure the jaundice when it is a simple disease; and when complicated with the dropsy, a schirrous liver, or other chronic complaints, it is hardly to be cured by any means.

Numberless British herbs are extolled for the cure of this disease. The author of the *Medicina Britannica* mentions near a hundred, all famous for curing the jaundice. The disease often goes off of its own accord; in which case, the last medicine is always said to have performed the cure. I have seen considerable benefit, in a very obstinate jaundice, from a decoction of hempsed. Four ounces of the seed may be boiled in two English quarts of ale, and sweetened with coarse sugar. The dose is half an English pint every morning. It may be continued for eight or nine days.

I have likewise known Harrowgate sulphur water cure a jaundice of very long standing. It should be used for some weeks, and

the patient both drink and bathe.

The foluble tartar is a very proper medicine in the jaundice. A drachm of it may be taken every night and morning in a cup of tea or water-gruel. If it does not open the body, the dose may be increased. A very obstinate jaundice has been cured by swallowing raw eggs.

Persons subject to the jaundice ought to take as much exercise

as possible, and to avoid all heating and astringent aliments.

CHAPTER XXXIX.

Of the Dropfy.

HE dropfy is a preternatural fwelling of the whole body, or fome part of it, occasioned by a collection of watery humour. It is distingushed by different names, according to the part affected, as the anafarca, or a collection of water under the skin; the ascites, or a collection of water in the belly; the hydrops pectoris, or dropfy of the breast; the hydrocephalus, or dropfy of the brain, &cc.

CAUSES. ___ The dropfy is often owing to an hereditary difpolition. It may proceed from drinking ardent spirits, or other strong liquors. It is true almost to a proverb, that great drinkers die of a dropfy. Hence it is justly reckoned among the diseases of the fedentary. It often proceeds from excessive evacuations, as frequent and copious bleedings, strong purges often repeated, frequent falivations, &c. The fudden stoppage of customary or neceffary evacuations, as the menses, the hæmorrhoids, fluxes of the

belly, &c. may likewife cause a dropfy. I have known the dropfy occasioned by drinking large quantities of cold, weak, watery liquor, when the body was heated by violent exercise. A low, damp, or marshy situation is likewise a frequent cause of it. Hence it is a common disease in moist, flat, fenny countries. It may also be brought on by a long use of poor watery diet, or of viscous aliment that is hard of digestion. It is often the effect of other diseases, as the jaundice, a schirrus of the liver, a violent ague of long continuance, a diarrhœa, a dyfentery, an empyema, or a confumption of the lungs. In fhort, whatever obstructs the perspiration, or prevents the blood from being

duly prepared, may occasion a dropfy.

SYMPTOMS. The anafarca generally begins with a fweling of the feet and ancles towards night, which for some time difappears in the morning. In the evening, the parts, if preffed with the finger, will pit. The fwelling gradually afcends, and occupies the trunk of the body, the arms and the head. Afterwards the breathing becomes difficult, the urine is in small quantity, and the thirst great; the body is bound, and the perspiration is greatly obstructed. To these succeed torpor, heaviness, a slow wasting fever, and a troublesome cough. This last is generally a fatal symptom, as it flows that the lungs are affected.

In an afcites, besides the above symptoms, there is a swelling of the belly, and often a fluctuation, which may be perceived by striking the belly on one side, and laying the palm of the hand on the opposite. This may be distinguished from a tympany by the weight of the fwelling, as well as by the fluctuation. When the anafarca and afcites are combined, the case is very dangerous. Even a simple ascites seldom admits of a radical cure. Almost all that can be done is, to let off the water by tapping, which feldom af-

fords more than a temporary relief.

When the disease comes suddenly on, and the patient is young and strong, there is reason however to hope for a cur, especially if medicine be given early. But if the patient be old, has led air irregular or a fedentary life, or if there be reason to suspect that the liver, lungs, or any of the vifcera are unfound, there is great ground to fear that the consequences will prove fatal.

REGIMEN.—The patient must abstain, as much as possible, from all drink, especially weak andwatery liquors, and must quench his thirst with mustard-whey, or acids, is juice of lemons, oranges, forrel, or fuch like. His aliment ought to be dry, of a stimulating diuretic quality, as toasted bread, the sless of birds, or other wild animals roasted; pungent and aromatic vegetables, as garlic, mustard, onions, cresses, horse-radish, rocambole, shalot, &c. He may also eat sea-biscuit dipt in wine or a little brandy. This is not only nourishing but tends to quench thirst. Some have been actually cured of a dropsy by a total abstinence from all liquids, and living entirely upon such things as are mentioned above. If the patient must have drink, the Spa-water, or Rhenish wine, with diuretic medicines insused in it, are the best.

Exercife is of the greatest importance in a dropfy. If the patient be able to walk, dig, or the like, he ought to continue these exercises as long as he can. If he is not able to walk or labour, he must ride on horseback, or in a carriage, and the more violent the motion, so much the better, provided he can bear it. His bed ought to be hard, and the air of his apartments warm and dry. If he lives in a damp country, he ought to be removed into a dry one, and, if possible, into a warmer climate. In a word, every method should be taken to promote the perspiration, and to brace the solids. For this purpose it will likewise be proper to rub the patient's body, two or three times a-day, with a hard cloth, or the sless that the sum of the sum of

MEDICINE.——If the patient be young, his conflitution good, and the difeafe has come on fuddenly, it may generally be removed by firong vomits, brifk purges, and fuch medicines as promote a difcharge by fweat and urine.* For an adult, half a drachm of ipecacuanha in pov 'er, and half an ounce of oyxmel of fquills, will be a proper vomit. This may be repeated as often as necessary, three or four days intervening between the doses. The patient must not drink much after taking the vomit otherwise he destroys its effect. A cup or two of camomile-tea will be fusficient to work it off.

Between each vomit on one of the intermediate days, the patient may take the following purge: Jalap in powder, half a drachm, cream of tartar, two drachms, calomel, fix grains. These may be made into a bolus with a little syrup of pale roses, and taken early in the morning. The less the patient drinks after it the better. If he be much griped, he may take now and then a cup of chicken-broth.

The patient may likewife take every night at bed-time the following bolus: To four or five grains of camphor add one grain

Anafarca in young people has fometimes been cured by bleeding, when the juste has been full and firong; but in afcites, which most generally comes on at an advanced period of life, when the confituation is confiderably impaired frequently by an irregular mode of life, bleeding appears to be improjed, and even in afcites, when the pedient has been young. I have feen this evacuation used early with minited explanatage.

(1. C.)

of opium, and as much fyrnp of orange-peel as is sufficient to make them into a bolus. This will generally promote a gentle fweat, which should be encouraged by drinking now and then a fmall cup of wine-whey, with a tea-spoonful of the spirits of hartshorn in it. A tea-cupful of the following diuretic infusion may likewife be taken every four or five hours through the day:

Take juniper berries, mustard-feed, and horse-radish, of each half an ounce, ashes of broom half a pound; infuse them in a quart of Rhenish wine or strong ale for a few days, and afterwards strain off the liquor. Such as cannot take this infusion, may use the decoction of feneka-root, which is both diuretic and fudorific. I have known an obstinate anafarca cured by an infusion of the

ashes of broom in wine.

The above courfe will often cure an incidental dropfy, if the constitution be good; but when the disease proceeds from a bad habit, or an unfound state of the viscera, mercury should be used; and at the fame time the ftrength fupported by warm and nou-

rifhing cordials.

The fecretion of urine may be greatly supported by nitre. Brookes fays, he knew a young woman who was cured of a dropfy by taking a drachm of nitre every morning in a draught of ale, after the had been given over as incurable. The powder of fquills is likewife a good diuretic. Six or eight grains of it, with a scruple of nitre, may be given twice a-day in a glass of strong cinnamon-water. Ball fays, a large fpoonful of unbruifed mustard-seed taken every night and morning, and drinking half an English pint of the decoction of the tops of green broom after it, has performed a cure after other powerful medicines had proved ineffectual.

I have fometimes feen good effects from cream of tartar in this difeafe. It promotes the discharges by slool and urine, and will at least palliate, if it does not perform a cure. The patient may begin by taking an ounce every fecond or third day, and may inerease the quantity to two or even to three ounces, if the stomach will bear it. This quantity is not however to be taken at once.

but divided into three or four doses.

To promote perspiration, the patient may use the decoction of feneka-root, as directed above; or he may take two table-spoonfuls of Mindererus's spirit in a cup of wine-whey three or four times a-day. To promote a discharge of urine, the following infu-

sion of the London hospitals will likewife be beneficial:

Take of zedoary-root two drachms; dried fquills, rhubarb, and juniper-berries bruifed, of each a drachm; cinnamon in powder, three drachms; falt of worm-wood, a drachm and a half; infufe in an English pint and a half of old hock-wine, and when fit A wine-glass of it may be taken three for use, filter the liquor. or four times a-day.

In the anaforca it is usual to scarify the feet and legs. means, the water is often discharged; but the operator must be cautions not to make the incisions too deep: they ought barely to pierce through the skin, and especial care must be taken, by spiriturus tomentations and proper digestives, to prevent a gandrene

grene.

In an afcites, when the disease does not evidently and speedily give way to purgative and diuretic medicines, the water ought to be set off by tapping. This is a very simple and safe operation, and would often succeed if it were performed in due time, before

the fystem become too much debilitated. *

After the evacuation of the water, the patient is to be put on a course of strengthening medicines; as the bark; the elixir of vitriol; warm aromatics, with a due proportion of rhubarb, infused in wise, and such like. His diet ought to be dry and nourishing, such as is recommended in the beginning of the chapter; and he should take as much exercise as he can bear without fatigue. He should wear slannel next his skin, and daily use the stephenoush.

CHAPTER XL.

Of the Gout.

O difease shows the impersection of medicine, or sets the advantages of temperance and exercise in a stronger light, than the gout. Excess and idleness are the true sources from whence it originally sprung, and all who would avoid it must be

active and temperate.

Though idleness and intemperance are the principal causes of the gout, yet many other things may contribute to bring on the disorder in those who are not, and to induce a paroxysm in those who are subject to it; as intense shudy; too free an use of acidulated liquors; night-watching; grief or uneasiness of mind; an obstruction or defect of any of the customary discharges, as the menses, sweating of the seet, perspiration, &c.

SYMPTOMS.—A fit is generally preceded by indigetion, drowfiness, belching of wind, a slight head-ach, sickness, and sometimes vomiting. The patient complains of weariness and dejection of spirits, and has often a pain in the limbs, with a sensation as if wind or cold water were passing down the thigh. The

^{*} The very name of an operation is dreadful to most people, and they will to try every thing before they have recomfe to it. This is the reason why tapping so feldom fucceeds to our wish. I have had a patient who was regularly tapped once a month for several years, and who used to eat her dinner as well after the operation, as if nothing had happened. She died at left rather wern out by age than by the difease.

appetite is often remarkably keen a day or two before the fit, and there is a flight pain in palling urine, and fometimes an involuntary fleedding of tears. Sometimes these symptoms are much more violent, especially upon the near approach of a fit; and some observe, that as is the sever which ushers in the gout, so will the fit be; if the sever be short and sharp, the fit will be so likewise, if it be seeble, long, and lingering, the fit will be such also. But this observation can only hold with respect to very regular fits of

the gout.

The regular gout generally makes its attack in the fpring, or beginning of winter, in the following manner: About two or three in the morning, the patient is seized with a pain in his great toe, sometimes the heel, and at other times in the ancle or calf of the leg. This pain is accompanied with a sensation as if cold water were poured upon the part, which is succeeded by a shivering, with some degree of sever. Afterwards the pain increases, and fixing among the small bones of the foot, the patient feels all the different kinds of torture, as if the part were stretched burnt, squeezed, gnawed, or torn in pieces, &c. The part at length becomes so exquisitely servible, that the patient cannot bear to have it touched, or even suffer any person to walk across the room.

The patient is generally in exquisite torture for twenty-four hours, from the time of the coming on of the fit: he then becomes easier, the part begins to swell, appears red, and is covered with a little moisture. Towards morning he drops asleep, and generally falls into a gentle breathing sweat. This terminates the first paroxysm, a number of which constitutes a fit of the gout; which is longer or shorter according to the patient's age, strength, the feason of the year, and the disposition of the body to this disease.

The patient is always worse to wards night, and easier in the morning. The paroxysms generally grow milder every day, till at length the disease is carried off by perspiration, urine, and the other evacuations. In some patients, a few days; in others, weeks, and in some, months are required to sinish the sit. Those whom age and frequent sits of the gout have greatly debilitated, seldom get free from it before the approach of summer, and sometimes not till it be pretty far advanced.

REGIMEN.—No medicines yet known will cure the gout; we shall confine our observations chiefly to regimen, both in and

out of the fit.

In the fit, if the patient be young and firong, his diet ought to be thin and cooling, and his drink of a diluting nature; but where the constitution is weak, and the patient has been accustomed to live high, this is not a proper time to retrench. In this case, he must keep nearly to his usual diet, and should take frequently a cup of strong negus, or a glass of generous wine. Wine-whey is a very proper drink in this case, as it promotes the perspiration without greatly heating the patient. It will answer this purpose

better, if a tea-spoonful of fal volatile oleosum, or spirits of hartshorn, be put into a cup of it twice a-day. It will likewise be proper, to give at bed-time, a tea-spoonful of the volatile tineture of guaiacum in a large draught of warm wine-whey. This will great-

ly promote perspiration through the night.

As the most sase and efficacious method of discharging the gouty matter is by perspiration, this ought to be kept up by all means, especially in the affected part. For this purpose, the leg and soot should be wrapt in flannel, fur, or wool. The last seems to answer the purpose better than any thing else. The people of Lancashire look upon wool as a kind of specific in the gout. They wrap a great quantity of it about the leg and foot affected, and cover it with a skin of foft dressed leather. This they suffer to continue for eight or ten days, and sometimes for a fortnight or three weeks, or longer, if the pain does not cease. I never knew any external application answer so well in the gout. I have often seen it applied when the fwelling and inflammation were very great, with violent pain, and have found all these symptoms relieved by it in a few days. The wool is generally greafed, and carded or combed. They choose the softest which can be had, and seldom or never remove it till the fit be entirely gone off.

The patient ought to be kept quiet and eafy during the fit. Every thing that affects the mind difturbs the paroxysm, and tends to throw the gout upon the nobler parts. All external applications that repel the matter are to be avoided as death. They do not cure the disease, but remove it from a safer to a more dangerous part of the body, where it often proves satal. A fit of the gout is Nature's method of removing something that might prove distructive to the body, and all that we can do, with safety, is to promote her intentions, and affift her in expelling the enemy in her own way. Evacuations by bleeding, stool, &c. are likewise to be used with caution; they do not remove the cause of the disease, and sometimes by weakening the patient, prolong the fit: but, where the constitution is able to bear it, it will be of use to keep the body gently open by diet, or even mild laxative medicines.

Many things will indeed shorten a fit of the gout, and some will drive it off altogether; but nothing has yet been sound which will do this with safety to the patient. In pain, we eagerly grasp at any thing that promises immediate ease, and even hazard life itself for a temporary relief. This is the true reason why so many infallible remedies have been proposed for the gout, and why such numbers have lost their lives by the use of them. It would be as prudent to stop the small-pox from rising, and to drive them into the blood, as to attempt to repel the gouty matter after it has been thrown upon the extremities. The latter is as much an effort of Nature to free herself from an offending cause as the for-

mer, and ought equally to be promoted.

When the pain is very great, and the patient restless, thirty or

forty drops of laudanum, more or lefs, according to the violence of the fymptoms, may be taken at bed-time. This will eafe the pain, procure reft, promote perspiration, and forward the crises of the disease.

After the fit is over, the patient ought to take a gentle dose or two of the bitter tincture of rhubarb, or some other warm stomachic purge. He should also drink a weak insusion of stomachic bitters in small wine or ale, as the bark with cinnamon, Virginian snake-root, and orange-peel. The diet at this time should be light, but nourishing, and gentle exercise ought to be taken on horseback, or in a carriage.

Out of the fit, it is in the patient's power to do many things towards preventing a return of the diforder, or rendering the fit, if it should return, less severe. This, however, is not to be attempted by medicine. I have frequently known the gout kept off for several years by the bark and other astringent medicines; but, in all the cases, where I had occasion to see this tried, the persons died suddenly, and to all appearance, for want of a regular sit of the gout, which, to some constitutions, in the decline of life, is rather falutary than hurtful.

Though it may be dangerous to stop a fit of the gout by medicine, yet if the constitution can be so changed by diet and exercise, as to lessen or totally prevent its return, there certainly can be no danger in following such a course. The whole habit may be altered by a proper regimen, as quite to eradicate this disease; and those only who have sufficient resolution to persist in such a

course, have reason to expect a cure.

The course which we would recommend for preventing the gout, is as follows: In the first place, universal temperance. In the next place, sufficient exercise*. By this we do not me an fauntering about in an indolent manner, but labour, sweat, and toil. These only can render the humours wholesome, and keep them so. Going early to bed, and rising betimes, are also of great importance. It is likewise proper to avoid night-studies, and all intense thought. The supper should be light, and taken early. All strong liquors, especially generous wines and sour punch, are to be avoided.

We would likewise recommend some doses of magnesia alba and rhubarb to be taken every spring and autumn; and afterwards a course of stomachic bitters, as tansey or water-tresoil tea, an infusion of gentian and canomile slowers, or a decoction of burdock root, &c. Any of these, or an insusion of any wholesome bitter that is more agreeable to the patient, may be drank for two or three weeks in March and October twice a-day. An issue or perpetual blister has a great tendency to prevent the gout. If these

^{*} Some make a fecret of curing the gout by mufcular exercife. This fecret, however, is as old as Celfus, who firongly recommends that mode of cure; and whoever will fubmit to it, in the fullest extent, may expect to reap folid and permanent advantages.

we... more generally used in the decline of life, they would not only often prevent the gout, but also other chronic maladies. Such as con afford to go to Bath, will find great benefit from bathing and drinking the water. It both promotes digestion, and invigorates the habit.

Though there is little room for medicine during a regular fit of the gout, yet when it leaves the extremities, and falls on some of the internal parts, proper applications to recal and fix it become absolutely necessary. When the gout affects the head, the pain of the joints ceases, and the swelling disappears, while either severe head-ach drowsiness, trembling, giddiness, convulsions, or delirium come on. When it seizes the lungs, great oppression, with cough and dishculty of breathing, ensue. If it attacks the stomach, extreme sickness vomiting, anxiety, pain in the epigastric region, and total loss of strength will succeed.

When the gout attacks the head or lungs, every method must be taken to fix it in the feet. They must be frequently bathed in warm water, and acrid cataplasms applied to the soles. Blisters ought likewise to be applied to the ancles or calves of the legs. Bleeding in the feet or ancles is also necessary, and warm stomachic purges. The patient ought to keep in bed for the most part, if there be any signs of inflammation, and should be very careful.

not to catch cold.

If it attacks the stomach with a sense of cold, the most warm cordials are necessary; as strong wine boiled up with cinnamon or other spices; cinnamon water; peppermint-water, and even brandy or rum. The patient should keep his bed, and endeavour to promote a sweat by drinking warm liquors; and if he should be troubled with a nausea, or inclination to vomit, he may drink camomile tea, or any thing that will make him vomit freely.

When the gout attacks the kidneys, and imitates gravel-pains, the patient ought to drink freely of a decoction of marsh-mallows, and to have the parts fomented with warm water. An emollient clyster ought likewise to be given, and afterwards an opiate. If the pain be very violent, twenty or thirty drops of laudanum may

be taken in a cup of the decoction.

Perfons who have had the gout should be very attentive to any complaints that may happen to them about the time when they have reason to expect a return of the fit. The gout imitates many other disorders, and by being mistaken for them, and treated improperly, is often diverted from its regular course, to the great danger of life.

Those who never had the gout, but who, from their constitution or manner of living, have reason to expect it, ought to be very circumspect with regard to its first approach. If the disease, by wrong conduct or improper medicines, be diverted from its proper course, the patient has a chance to be ever after tormented

with head achs, coughs, pains of the stomach and intestines; and to fall at last a victim to its attack upon some of the more noble parts.

Of the Rheumatism.

THIS difease has often a resemblance to the gout. It generally attacks the joints with exquisite pain, and is sometimes attended with inflammation and swelling. It is most common in the spring, and towards the end of autumn. It is usually distinguished into acute and chronic; or the rheumatism with and without a fever.

CAUSES.—The causes of a rheumatism are frequently the fame as those of an inflammatory sever, viz. an obstructed perspiration, the immoderate use of strong liquors, and the like. Sudden changes of the weather, and all quick transitions from heat to cold, are very apt to occasion the rheumatism. The most extraordinary case of a rheumatism that I ever saw, where almost every joint of the body was distorted, was a man who used to work one part of the day by the sire, and the other part of it in the water. Very obstinate rheumatisms have likewise been brought on by persons not accustomed to it, allowing their seet to continue long wet. The same effects are produced by wet clothes, damp beds, sitting or lying on the damp ground, travelling in the night, by excessive evacuations, or the stoppage of customary discharges. It is often the effect of chronic discases, as the scurvy, the lues venerea, obstinate autumnal agues, &c.

The rheumatism prevails in cold, damp, marshy countries. It is most common among the poorer fort of peasants, who are ill clothed, live in low damp houses, and eat coarse unwholesome food, which contains but little nourishment, and is not easily di-

gested.

SYMPTOMS.—The acute rheumatism commonly begins with weariness, shivering, a quick pulse, restlessness, thirst, and other symptoms of fever. Afterwards the patient complains of slying pains, which increase by the least motion. These at length six in the joints, which are often affected with swelling and inflammation. If blood be let in this disease, it has generally the

fame appearance as in the pleurify.

In this kind of rheumatifm, the treatment of the patient is nearly the same as in an acute or inflammatory sever. If he be young and strong, bleeding is necessary, which may be repeated according to the exigencies of the case. The body ought to be kept open by emollient clysters, or cool opening liquors; as decoctions of tamarinds, cream of tartar whey, senna tea, and the like. The diet should be light, and in small quantity, consisting chiefly of

reafted apples, groat-gruel, or weak chicken broth. After the feverish fymptoms have abated, if the p in still continues, the patient must keep his bed, and take such things as promote perspiration; as wine-whey, with *spiritus Mindereri*, &c He may likewise take, for a few nights, at bed-time, in a cup of wine-whey, a drachm of the cream of tartar, and half a drachm of gum guaiacum in powder.

Warm bathing, after proper evacuations, has often an exceeding good effect. The patient may either be put into a bath of warm water, or have cloths wrung out of it applied to the parts affected. Great care must be taken that he do not catch cold after

bathing.

The chronic rhoumatism is seldom attended with any considerable degree of sever, and is generally confined to some particular part of the body, as the shoulders, the back, or the loins. There is seldom any inflammation or swelling in this case. Persons in the decline of life are most subject to the chronic rheumatism. In such patients, it often proves extremely obstinate, and sometimes incurable.

In this kind of rheumatism the regimen should be nearly the same as in the acute. Cool and diluting dict, as stewed prunes, coddled apples, currants or gooseberries boiled in milk, is most proper. Arbuchnot says, "If there be a specific in aliment for the rheumatism, it is certainly whey;" and adds, "that he knew a person subject to this disease, who could never be cured by any other method but a diet of whey and bread." He says, "that cream of tartar in water-gruel, taken for several days, will ease rheumatic pains considerably." This I have often experienced, but found it always more efficacious when joined with gum gualacum, as already directed. In this case, the ratient may take the dose formerly mentioned twice-a-day, and likewise a tea-spoonful of the volatile tincture of gum gualacum, at bed time, in wine-whey.

This course may be continued for a week, or longer, if the case proves obstinate, and the patient's strength will permit. It ought then to be omitted for a few days, and repeated again. At the same time leeches or a blister may be applied to the part affected. What I have generally sound answer better than either of these, in obstinate fixed rheumatic pains, is the warm plaister. I have likewise known a plaister of Burgundy pitch worn for some time on the part affected, give great relief in rheumatic pains. Dr. Alexander, of Edinburgh, says he has frequently cured very obstinate rheumatic pains, by rubbing the part affected with tincture of cantharides. When the common tincture did not succeed, he used it of a double or treble strength. Cupping upon the part affected

is often very beneficial, and is greatly preferable to the application of leeches.

Though this difease may not seem to yield to medicines for some time, yet they ought still to be persisted in. Persons subject to frequent returns of rheumatism, will often find their account in using medicines, whether they be immediately affected with the disease or not. The chronic rheumatism is similar to the gout in this respect, that the most proper time for using medicines to extirpate it, is when the patient is most free from the disorder.

To those who can afford the expense, I recommend the warm baths of Buxton or Matlock in Derbyshire. These have often, to my knowledge, cured very obstinate rheumatisms, and are always safe either in or out of the sit. When the rheumatism is complicated with scorbuic complaints, which is not seldom the case, the Harrowgate waters, and those of Mosfat, are proper. They

should both be drank and used as a warm bath.

Several of our own domestic plants may be used with advantage in the rhoumatism. One of the best is white muslard. A table-spoonful of the seed of this plant may be taken twice or thrice a-day, in a glass of water or small wine. The water-trefoil is like-wise of great use in this complaint. It may be insused in wine or ale, or drank in form of tea. The ground-ivy, camomile, and several other bitters are beneficial, and may be used in the same way. No benefit is to be expected from these, unless they be taken for a considerable time. Excellent medicines are often despised in this disease, because they do not perform an immediate cure; whereas, nothing would be more certain than their effect, were they duly persisted in. Want of perseverance in the use of medicines is one reason why chronic diseases are so feldom cured.

Cold bathing, especially in salt water, often cures the rheumatism. We also recommend riding on horseback, and wearing slannel next the skin. Issues are very proper, especially in chronic cases. If the pain affects the shoulders, an issue may be made in the arm; but if it affects the loins, it should be put in the leg

or thigh.

Persons afflicted with the scurvy are very subject to rheumatic complaints. The best medicines in this case are bitters and mild purgatives. These may either be taken separately or together, as the patient inclines. An ounce of bark, and half an ounce of rhubarb in powder, may be insused in a bottle of wine; and one, two, or three wine glasses of at taken daily, as shall be sound necessary for keeping the body gently open. In cases where the bark itself proves sufficiently purgative, the rheubarb may be omitted.

Such as are subject to frequent attacks of the rheumatism ought to make choise of a dry, warm situation to avoid the night-air, wet clothes, and wet seet, as much as possible. Their clothing should be warm; they should wear stannel next their skin, and

make frequent use of the flesh-brush.

CHAPTER XLI.

The Scurvy

REVAILS chiefly in cold northern countries, especially in low damp fituations, near large marshes, or great quantities of stagnating water. Sedentary people, of a dull, inclancholy disposition, are most subject to it. It proves often fatal to sailors on long voyages particularly in ships that are not properly ventuated, have many people on board, or where cleanliness is neglected.

It is not necessary to mention the different species into which this disease has been divided, as they differ from one another chiefly in degree. What is called the land security, however is selded attended with those highly putrid symptoms which appear is patients who have been long at sea, and which, we prefume, are rather owing to confined air, want of exercise, searcity of water, and the unwholesome sood eaten by failors on long voyages, than

to any specific difference in the disease.

CÁUSES.—The fourvy is occasioned by cold, moist air; by the long use of salted or smoke-dried provisions, or any kind of food that is hard of digestion, and affords little norishment. It may also proceed from the suppression of customary evacuations; as the menses, the hamorrhoidal slux, &c. It is sometimes owing to a hereditary taint, in which case, a very small cause will excite the latent disorder. Grief, sear, and other depressing passions, have a great tendency both to excite and aggravate this discase. The same observation holds with regard to neglect of cleanlines; badelothing; the want of proper exercise; confined air; unwholesome

food; or any difease which greatly weakens the body.

SYMPTOMS.—This difease may be known by unusual weariness, heaviness, and difficulty of breathing, especially after motion; rottenness of the gums, which are apt to bleed on the slightest touch; a stinking breath; frequent bleeding at the note; crackling of the joints; disficulty of walking; sometimes a swelling, and sometimes a falling away of the legs, on which there are livid, yellow, or violet-coloured spots; the face is generally of a pale or leaden colour. As the disease advances, other symptoms come on; as rottenness of the teeth, hæmorrhages, or discharges of blood from different parts of the body, soul obstinate ulcers, pains in various parts, especially about the breast, dry, scaly eruptions all over the body, &c. At last, a wasting or heatic fever comes on, and the patient is often carried off by a dysentery, a diarrhoca, a dropsy the palsy, fainting sits, or a mortification of some of the bow cles.

CURE. — We know no way of curing this disease but by

pursuing a plan directly opposite to that which brings it on. It is occasioned by errors in diet, air, or exercise; and this cannot be removed but by a proper attention to these important acticles.

If the patient has been obliged to breathe a cold, d mp, or confined air, he should be removed, as soon as possible, to a dr, open, and moderately warm one. If there is reason to believe hat the diferse proceeds from a sedentary life, or depressing passions, as grief, sear, &c. he must take, daily, as much exercise in the open air as he can bear, and his mind should be diverted by cheerful company and other amusements. Nothing has a greater to idency either to prevent or remove this disease than constant cheerfulness and good humour. But persons afflicted with the scurvy, are

generally furly, prevish, and morose.

vitriol, vinegar, or the spirit of sea-salt.

When the feury comes on by a long use of salted provisions, the proper medicine is a diet consisting chiefly of fresh vegetables; as oranges, apples, lemons, limes, tamarinds, water-criffes, seury-grass, brook-lime, &c. The use of these, with milk, pot-herbs, new-bread, and fresh beer or cyder, will seldom fail to remove a seury of this kind, if taken before it be too far advanced; but to have this effect they must be persisted in for a considerable time. When fresh vegetables cannot be obtained, pickled or preserved ones may be used; and where these are wanting, recourse must be had to the chemical acids. All the patient's food and drink, should, in this case, be sharpened with cream of tartar, elixir of

These things, however, will more certainly prevent than cure the scurvy; for which reason, sea-saring people, especially on long voyages, ought to lay in plenty of them. Cabbages, onions, gooseberries, and many other vegetables, may be kept a long time by pickling, preserving. &c. and when these fail, the chemical acids, recommended above, which will keep for any length of time, may be used. We have reason to believe, if ships were well ventilated, had good store of fruits, greens, cycler, &c. laid in, and if proper regard were paid to cleanliness and warmth, that sailors would be the most healthy people in the world, and would feldom suffer either from the scurvy or malignant severs, which are so fatal to that useful set of men; but it is too much their temper to despite all precaution; they will not think of any calamity till it overtakes them, when it is too late to ward off the blow.

It must indeed be owned, that many of them have it not in their power to make the provision we are speaking of; but in this case it is the duty of their employers to make it for them; and no man ought to engage in a long voyage without having these articles fecured.

I have often feen very extraordinary effects in the land-feurvy from a milk diet. This preparation of nature, a mixture of animal and vegetable properties, is the most fit for restoring a decayed constitution. But people despite this wholesome and nourishing food, because it is cheap, and devour with greediness, flesh, and fermented liquors, while milk is only deemed fit for hogs.

The most proper drink in the sourcy is whey or butter-milk. When these cannot be had, sound cyder, perry, porter or spruce-beer, may be used. Wort has been sound a proper drink in the source, and may be used at sea, as malt will keep during the longest voyage. A decoction of the tops of the spruce fir is likewise proper. It may be drank in the quantity of an English pint twice aday. Tar-water may be used for the same purpose, or decoctions of any of the mild mucilaginous vegetables; as sarsaparilla, marshmallow roots, &c. Insusions of the bitter plants, as ground-ivy, the lesser centaury, marsh-tresoil, &c. are beneficial. The peasants in some parts of Britain, express the juice of the last-mentioned plant, and drink it with good essential in those foul, scorbutic eruptions with which they are often troubled in the spring season.

Harrowgate-water is certainly an excellent medicine in the land-fourvy. I have often feen patients who had been reduced to the most deplorable condition by this disease, greatly relieved by drinking the sulphur-water, and bathing in it. The chalybeate-water may also be used with advantage, especially with a view to brace the stomach after drinking the sulphur-water, which, though it sharpens the appetite, never fails to weaken the powers of

digestion.

A flight degree of feurvy may be carried off by frequently sucking a little of the juice of a bitter orange, or a lemon. When the disease affects the gums only, this practice, if continued for some time, will generally carry it off. We recommend the bitter orange as greatly preserable to lemon; it seems to be as good a medicine, and is not near so hurtful to the stomach. Perhaps our own forcel

may be little inferior to either of them.

All kinds of fallad are good in the feurvy, and ought to be caten very plentifully, as fpinage, lettuce, parfley, celery, endive, radiffh, dandelion, &c. It is amazing to fee how foon fresh vegetables in the spring cure the brute animals of any scab or foulness which is upon their skins. It is reasonable to suppose that their effects would be as great upon the human species, were they used

in proper quantity for a sufficient length of time.

I have fometimes feen good effects in fcorbutic complaints of very long standing, from the use of a decoction of the roots of water-dock. It is usually made by boiling a pound of the fresh root in fix English pints of water, till about one-third of it be consumed. The dose is from half a pint to a whole pint of the docoction every day. But in all the cases where I have seen it prove beneficial, it was made much stronger, and drank in larger quantities. The safest way is, for the patient to begin with small doses, and increase them both in strength and quantity as he sinds his stomach will bear it. It must be used for a considerable time. I have known some take it for many months, and have been told of others

who had used it for several years, before they were sensible of any

benefit, but who nevertheless were cured by it at length.

The leprofy, which was fo common in this country long ago, feems to have been near a-kin to the feurvy. Perhaps its appearing fo feldom now, may be owing to the inhabitants of Britain cating more vegetable food than formerly, living more upon tea, and other diluting diet, using less falted meat, being more cleanly, better lodged and clothed, &c.—For the cure of this difease, we recommend the same course of diet and medicine as in the seurvy.

The Scrophula, or King's Evil

CHIEFLY affects the glands, especially those of the neck. Children, and young persons of a sedentary life, are very subject to it. It is one of those diseases which may be removed by proper regimen, but seldom yields to medicine. The inhabitants of cold,

damp, marshy countries are most liable to the scrophula.

CAUSES.——I his difease may proceed from a hereditary taint, from a scrophulous nurse, &c. Children who have the misfortune to be born of sickly parents, whose constitutions have been greatly injured by the pox, or other chronic diseases, are apt to be affected with it. It may proceed from such diseases as weaken the habit, as the small-pox, measles, &c. External injuries, as blows, bruises, and the like, sometimes produce scrophulous ulcers; but we believe, when this happens, that there has been a predisposition in the habit to this disease. In short, whatever tends to relax the solids, paves the way to the scrophula; as the want of proper exercise, too much heat or cold, confined air, unwholesome sood, bad water, the long use of poor, weak, watery aliments, the neglect of cleanlines, &c. Nothing tends more to induce this disease in children, than allowing them to continue long wet*.

SYMP FOMS.—At first, small knots appear under the chin or behind the ears, which gradually increase in number and fize, till they form one large hard tumour. This often continues for a long time without breaking, and when it does break, it only discharges a thin fanies, or watery humour. Other parts of the body are likewise liable to its attack, as the arm-pits, groins, sect, hands, eyes, recasts, &c. Nor are the internal parts exempt from it. It often affects the lungs, liver, or spleen; and frequently the

glands of the mysentery are greatly enlarged by it.

Those obstinate ulcers which break out upon the feet and hands with swelling, and little or no redness, are of the scrophulous kind. They seldom discharge good matter, and are exceedingly dissicult

^{*} The scrophula, as well as the rickets, prevails in large manufacturing towns, where people live gross, and lead sedentary lives.

to cure. The white favelling of the joints seems to be of this kind. They are with difficulty brought to a suppuration, and when opened, they only discharge a thin ichor. There is not a more general fymptom of the scrophula than a swelling of the upper lip and

REGIMEN.—As this difease proceeds, in a great measure, from relaxation, the diet ought to be generous and nourishing, but at the same time, light and of easy digestion; as well fermented bread, made of found grain, the flesh and broth of young animals, with a glass of generous wine, or good ale. The air ought to be open, dry, and not too cold, and the patient should take as much exercise as he can bear. This is of the utmost importance. Children who have fusheient exercise are seldom troubled with the

scrophula.

MEDICINE.—The vulgar are remarkably credulous with regard to the cure of the scrophula; many of them believing in the virtue of the royal touch, that of the seventh son, &c. We know but little of the nature or cure of this difease, and where reason or medicines fail, superstition always comes in their place. Hence, in diseases which are the most disficult to understand, we generally hear of the greatest number of miraculous cures being performed. Here, however, the deception is eafily accounted for. The scrophula, at a certain period of life, often cures of itself; and, if the patient happens to be touched about this time, the cure is imputed to the touch, and not to Nature. In the fame way, the infignificant nostrums of quacks and old women often gain applause when they deserve none.

Nothing is more pernicious than the custom of plying children in the scrophula with strong purgative medicines. People imagine it proceeds from humours which must be purged off, without confidering that these purgatives increase the debility and aggravate the difeafe. It has indeed been found, that keeping the body gently open for some time, especially with sea-water, has a good esfect; but this should only be given in gross habits, and in such quantity, as to procure one, or at most, two stools every day.

Bathing in the falt water has likewife a very good effect; especially in the warm feafon. I have often known a course of bathing in falt water, and drinking it in fuch quantities as to keep the body gently open, cure a scrophula, after many other medicines had been tried in vain. When falt water cannot be obtained, the patient may be bathed in fresh water, and his body kept open by small quantities of falt and water, or some other mild purgative.

Next to cold bathing, and drinking the falt water, we recommend the bark. The cold bath may be used in summer, and the bark in winter. To an adult, half a drachm of the bark in powder may be given in a glass of red wine four or five times a-day. Children, and fuch as cannot take it in substance, may use the decoc-

tion made in the following manner.

Boil an ounce of Peruvian bark and a drachm of Winter's bark, both grossly powdered, in an English quart of water to a pint: towards the end, half ar ounce of sliced liquorice-root, and a handful of raisins may be added, which will both render the decoction less disagreeable, and make it take up more of the bark. The liquor must be strained, and two, three, or four table-spoonfuls, according to the age of the patient, given three times a-day.

The Mossat and Harrowgate waters, especially the latter, are likewise very proper medicines in the scrophula. They ought not to be drank in large quantities, but so as to keep the body gently

open, and must be used for a considerable time.

Hemlock may fometimes be used with advantage in the scrophula. Some lay it down as a general rule, that the sea-water is most proper before there are any suppuration or symptoms of tabes; the Peruvian bark, when there are running fores, and a degree of heetic fever; and the hemlock in old inveterate cases, approaching to the schirrous or cancerous state. Either the extract or the fresh juice of this plant may be used. The dose must be small at sirst,

and increased gradually as far as the stomach can bear it.

External applications are of little use. Before the tumour breaks, nothing ought to be applied to it, unless a piece of slannel or something to keep it warm. After it breaks, the fore may be dressed with some digestive ointment. As the rellow basilicon mixed with about a fixth or eighth part of its weight of red precipitate of mercury. The fore may be dressed with this twice a-day; and if it be very sungous, and does not digest well, a larger proportion of the precipitate may be added.

Medicines which mitigate this discrete, though they do not cure it, are not to be despised. If the patient can be kept alive by any means till he arrives at the age of puberty, he has a great chance to get well; but if he does not recover at this time, in all probabi-

lity, he never will.

There is no malady which parents are fo apt to communicate to their offspring as the fcrophula, for which reason, people ought to beware of marrying into families affected with this disease.

For the means of preventing the scrophula, we must refer the reader to the observations on nursing at the beginning of the book.

The Itch

IS commonly communicated by infection, yet it feldom prevails where due regard is paid to cleanlines, fresh air, and wholesome diet. It generally appears in form of small watery pustules, first about the wrists, or between the singers; afterwards it ailects the arms, legs, thighs, &c. These pustules are attended with an intolerable itching, especially when the patient is warm abed, or fits by the fire. Sometimes, indeed, the skin is covered with large blotches or scabs, and at other times with a white scurf, or scally eruption. This last is called the dry itch, and is the most difficult to cure.

The itch is foldom a dangerous disease, unless when rendered so by neglect, or improper treatment. If suffered to continue too long, it may vitiate the whole mass of blood, and, if suddenly drove in, without proper evacuations, it may occasion severs, in-

flammations of the viscera, or other internal disorders.

The best medicine for the itch is sulphur, used both externally and internally. The parts most affected may be rubbed with an ointment made of the flowers of sulphur, two ounces; crude sal ammoniae finely powdered, two drachms; hog's lard, or butter, four ounces. It a scruple or half a drachm of the essence of lemon be added, it will entirely take away the disagreeable smell. About the bulk of a nutmeg of this may be rubbed upon the extrematics at bed time twice or thrice a-week. It is feldom necessary to rub the whole body; but when it is, it ought not to be done all at once, but by turns, as it is dangerous to stop too ma-

ny pores at the same time.

Before the putient begins to use the ointment, he ought, if he be of a full habit, to bleed or take a purge or two. It will likewise be proper, during the use of it, to take every night and morning as much of the flour of brimstone and cream of tartar, in a little treacle or new milk, as will keep the body gently open. He should beware of catching cold, should wear more clothes than usual, and take every thing warm. The same clothes, the linen excepted, ought to be worn all the time of using the ointment; and such clothes as have been worn while the patient was under the disease, are not to be used again, unless they have been sumigated with brimstone, and thoroughly cleaned; otherwise, they will communicate the infection anew.

I never knew brimftone, when used as directed above, fail to cure the itch; and I believe that if duly persisted in, it never will fail; but if it be only used once or twice, and cleanliness neglected, it is no wonder if the disorder returns. The quantity of ointment, mentioned above, will generally be sufficient for the cure of one person; but if any symptoms of the disease should appear again, the medicine may be repeated. It is both more safe and essistant of the disease should appear and essistant of the disease should appear and essistant of the medicine may be repeated.

^{*} Sir John Pringle observes, that though this disease may seem triffing, there is no one in the army that is more troub asome to cure, as the infection often lurks in clothes, &c. and breaks out a second or even a third time. The same incomenicacy occurs in private samilic, unless particular regard is paid to the hanging or cleaning of their clother, which tast is by no means an easy operation.

eacious when perfifted in for a confiderable time, than when a large quantity is applied at once. As most people dislike the smell of fulphur, they may use in its place the powder of white hellebore root made up into an ointment, in the fame manner, which will feldom fail to cure the itch.

People ought to be extremely cautious lest they take other eruptions for the itch; as the stoppage of these may be attended with fatal confequences. Many of the eruptive disorders to which children are liable, have a near refemblance to this difeafe; and I have often known infants killed by being rubbed with greafy ointments that made these eruptions strike suddenly in, which Nature had thrown out to preferve the patient's life, or prevent some other malady.

Much mischief is likewise done by the use of mercury in this discase. Some persons wash the parts affected with a strong solution of the corrosive sublimate. Others use the mercurial ointment, without taking the least care either to avoid cold, keep the body open, or observe a proper regimen. The consequences may be eafily gueffed. Mercurial girdles have produced bad effects, and I would advice every person, as he values his health, to beware how he uses them. Mercury ought never to be used as a medicine without the greatest care. Ignorant people look upon these girdles as a kind of charm, without confidering that the mercury enters the body.

It is not to be told what mischief is done by using mercurial ointment for curing the itch and killing vermin; yet it is unneceffary for either: the former may be always more certainly cured by fulphur, and the latter will never be found where due regard

is paid to cleanliness.

Those who wish to avoid this detestable disease, ought to beware of infected persons, to use wholesome food, and to study universal cleanlinefs*.

^{*} The itch is now by cleanliness banished from every genteel samily in Britain. It still prevails among the poorer fort of penfants in Scotland, and among the manufacturers in England. These are not only sufficient to keep the feeds of the difease alive, but to spread the infection among others. It were to be wished, that some effectual method could be devised for extirpating it altogether. Soveral country elergymen have told me, that by getting fuch as were infected cured, and firongly recommending an attention to cleanlines, they have banished the itch entirely out of their parishes. Why might not others do the same?

CHAPTER XLII.

The Astoma

Is a difease of the lungs, which seldom admits of a cure. Perfons in the decline of life are most liable to it. It is distinguished into the maist and dry, or humoural and nervous. The former is attended with expectoration or spitting; but in the latter, the patient seldom spits, unless sometimes a little tough phlegm

by the mere force of coughing.

CAUSES.—The afthma is fometimes hereditary. It may likewise proceed from a bad formation of the breast; the sumes of metals or minerals taken into the lungs; violent exercise, especially running; the obstruction of customary evacuations, as the menses, hamorrhoids, &c. the sudden retrocession of the gout, or striking in of eruptions, as the small-pox, measles, &c. violent passions of the mind, as sudden fear or surprise. In a word, the disease may proceed from any cause that either impedes the circulation of the blood through the lungs, or prevents their being duly expanded by the air.

SYMPTOMS.—An althma is known by a quick laborious breathing, which is generally performed with a kind of wheezing noise. Sometimes the difficulty of breathing is so-great, that the patient is obliged to keep in an erect posture, otherwise he is in danger of being suffocated. A fit or paroxysm of the assume generally happens after a person has been exposed to cold easterly winds, or has been abroad in thick soggy weather, or has got wet, or continued long in a damp place under ground, or has taken some food which the stomach could not digest, as pastries, toast-

ed cheefe, or the like.

The paroxyfm is commonly ushered in with listlessness, want of sleep, hoarseness, a cough, belching of wind, a sense of heaviness about the breast, and dissiculty of breathing. To these succeed heat, sever, pain of the head, sickness and nausea, great oppression of the breast, palpitation of the heart, a weak and sometimes intermitting pulse, an involuntary slow of tears, bilious vomitings, &c. All the symptoms grow worse towards night; the patient is easier when up than in bed, and is very desirous of cool air.

REGIMEN.—The food ought to be light and of enfy digeftion. Boiled meats are to be preferred to roasted, and the slesh of young animals to that of old. All windy food, and whatever is apt to swell in the stomach is to be avoided. Light puddings, white broths, and ripe fruits, baked, boiled, or roasted, are proper. Strong liquors, of all kinds, especially malt liquor, are hurtful. The patient should out a very light supper, or rather more at all,

and should never suffer himself to be long costive. His clothing should be warm, especially in the winter-season. As all disorders of the breast are much relieved by keeping the seet warm, and promoting the perspiration, a stannel shirt or waistcoat, and thick

shoes, will be of singular service.

But nothing is of fo great importance in the asthma as pure and moderately warm air. Asthmatic people can seldom hear either the close heavy air of a large town, or the sharp, keen atmosphere of a bleak hilly country; a medium therefore between these is to be chosen. The air near a large town is often better than at a distance, provided the patient be removed so far as not to be affected by the smoke. Some asthmatic patients breathe easier in town than in the country; but this is feldom the case, especially in towns where much coal is burnt. Asthmatic persons who are obliged to be in town all day, ought at least to sleep out of it. This will often prove of great service. Those who can afford it, ought to travel into a warmer climate. Many asthmatic persons, who cannot live in Britain, enjoy very good health in the south of France, Portugal, Spain, or Italy.

Exercise is of very great importance in the asthma, as it promotes the digestion, preparation of the blood, &c. The blood of asthmatic persons is seldom duly prepared, owing to the proper action of the lungs being impeded. For this reason, such people ought daily to take as much exercise, either on soot, horseback, or in a

carriage, as they can bear.

MEDICINE. —Almost all that can be done by medicine in this disease, is to relieve the patient when seized with a violent fit. This, indeed, requires the greatest expedition, as the disease often proves suddenly fatal. In the paroxysm or sit, the body is generally bound; a purging clyfter, with a folution of afafætida, ought therefore to be administered, and if there be occasion, it may be repeated two or three times. The patient's feet and legs ought to be immersed in warm water, and afterwards rubbed with a warm hand, or dry cloth. Bleeding, unless extreme weakness or old age should forbid it, is highly proper. If there be a violent spasm about the breast or stomach, warm somentations, or bladders filled with warm milk and water, may be applied to the part affected, and warm cataplasms to the soles of the feet. The patient must drink freely of diluting liquors, and may take a teaspoonful of the tincture of castor and of sassion mixed together, in a cup of valerian-tea, twice or thrice a-day. Sometimes a vomit has a very good effect, and fuatches the patient from the jaws of death. This, however, will be more fafe after other evacuations have been premised. A very strong insusion of roasted cossee is faid to give case in an asthmatic paroxysm.

In the moist asthma, such things as promote expectoration or spitting ought to be used; as the syrup of squills, gum ammoniae, and such-like. A common spoonful of the syrup, or exymel of

fquills, mixed with an equal quantity of cinnamon-water, may be taken three or four times through the day, and four or five pills, made of equal parts of afafætida and gum-ammoniac, at bed time*.

For the convultive or nervous afthma, antispasmodics and bracers are the most proper medicines. The patient may take a teasspoonful of the paregoric elixir twice a-day. The bark is sometimes of use in this case. It may be taken in substance, or insused in winet. In short, every thing that braces the nerves, or takes off spasm, may be of use in a nervous asthma. It is often relieved by the use of assessments milk. I have likewise known cow's milk, drank warm in the morning, have a very good essential in this case.

In every species of asthma, setons and issues have a good effect. They may either be set in the back or side, and should never be allowed to dry up. Not only in the asthma, but in most chronic diseases, issues are extremely proper. They are a safe and essectious remedy; and though they do not always cure the disease, yet

they will often prolong the patient's life.

CHAPTER XLIII.

Of the Apoplexy.

HE apoplexy is a fudden loss of fense and motion, wherein the patient is to all appearance dead. The heart and lungs however still continue to move. This disease proves often satal; yet it may sometimes be removed by proper care. It chiefly attacks sedentary persons, of a gross habit, who use a rich and plentiful diet, and indulge in strong liquors. People in the decline of life are most subject to the apoplexy. It prevails most in winter, especially in rainy seasons, and very low states of the barometer.

CAUSES.—The immediate cause of an apoplexy is a compression of the brain, occasioned by an excess of blood, or a collection of watery humours. The former is called a sanguine, and the latter, a serous apoplexy. It may be occasioned by any thing that increases the circulation towards the brain, or prevents the return

^{*} After copious evacuations, large doses of ather have been found very efficacious in removing a sic of the athma. I have likewise known the following mixture produce very happy effects: To four or sive ounces of the following of gun-ammoniae, add two ounces of simple annumon-water, the same quantity of balsamic syrup, and halt an ounce of the paregoric elixir. Of this, two table-spoonluis may be taken every three hours.

[†] When a paroxyfin or fit of affilma has gone off, cold bathing may be employed, to co-operate with the tonic medicines recommended, to prevent a return of the paroxyfin.

(I. C.)

of the blood from the head; as intense study; violent passions*; viewing objects for a long time obliquely; wearing any thing too tight about the neck; a rich and luxurious diet; suppression of urine; suffering the body to cool suddenly after having been greatly heated; continuing long in a warm or a cold bath; the excessive use of spiceries, or high-scassoned food; excess of venery; the sudden striking in of any eruption; suffering issues, sections, section of the suppression of the striking in of any eruption; suffering issues, sections, section of the suppression of the sup

SYMPTOMS, and method of cure.—The usual forerunners of an apoplexy are giddiness, pain and swimming of the head; loss of memory; drowsiness; noise in the ears; the night-mare; a spontaneous slux of tears, and laborious respiration. When perfons of an apoplectic make observe these symptoms, they have reason to fear the approach of a fit, and should endeavour to prevent

it by bleeding, a flender diet, and opening medicines.

In the fanguine apoplexy, if the patient does not die suddenly, the countenance appears florid, the face is swelled or puffed up, and the blood-vessels, especially about the neck and temples, are turgid; the pulse beats strong; the eyes are prominent and fixed, and the breathing is dissicult, and performed with a snorting noise. The excrements and urine are often voided spontaneously, and the

patient is fometimes feized with vomiting.

In this species of apoplexy, every method must be taken to lessen the force of the circulation towards the head. The patient should be kept perfectly easy and cool. His head should be raised pretty high, and his feet suffered to hang down. His clothes ought to be loosened, especially about the neck, and fresh air admitted into his chamber. His garters should be tied pretty tight, by which means the motion of the blood from the lower extremities will be retarded. As soon as he is placed in a proper posture, he should be bled freely in the neck or arm, and, if there be occasion, the operation may be repeated in two or three hours. A laxative clyster, with plenty of sweet oil, or fresh butter, and a spoonful or two of common salt in it may be administered every two hours; and a

^{*} I knew a woman, who, in a violent fit of anger, was feized with a fanguine apoplexy. She at first complained of extreme pain, as if daggers had been thrust through her head, as she expressed it. Afterwards me became comatose, her pulse sunk very low, and was exceeding flow. By bleeding, blittering, and other evacuations, she was kept alive about a fortnight. When her head was opened, a large quantity of extravasated blood was found in the left venteicle of the brain.

[†] A clyffer, confiding of three ounces of glauber falts diffolved in a part of warm water, with an ounce of antimonial wine, and a fuitable quantity of oil, would have a more powerful effect in relieving the head.

(I. C.)

blifter appplied between the fhoulders, and to the calves of the

legs.

As foon as the fymptoms are a little abated, and the patient is able to fwallow, he ought to drink freely of fome diluting opening liquor, as a decoction of tamarinds and liquorice, cream-tartar whey, or common whey with cream of tartar diffolved in it. Or he may take any cooling purge, as Glauber's falts, manna diffolved in an infusion of fenna, or the like. All spirits and other strong liquors are to be avoided. Even volatile falts held to the nose do mischief. Vomits, for the same reason, ought not to be given, nor any thing that may increase the motion of the blood towards the liead.

In the ferous apoplexy, the fymptoms are nearly the fame, only the pulse is not so strong, the countenance is less storid, and the breathing less dissicult. Bleeding is not so necessary here as in the former case. It may generally be performed once with safety and advantage, but should not be repeated. The patient should be placed in the same posture as directed above, and should have blisters applied, and receive opening clysters in the same manner. Purges are likewise necessary, and the patient may drink strong balm-tea. If he be inclined to sweat, it ought to be promoted by drinking small wine-whey, or an insusion of carduus benedictus. A plentiful sweat kept up for a considerable time has often carried off a fero us apoplexy.

When apoplectic fymptoms proceed from opium, or other narcotic fubstances taken into the stomach, vomits are necessary. The patient is generally relieved as soon as he has discharged the

poison in this way.

Perfons of an apoplectic make, or those who have been attacked by an apoplexy, ought to use a very spare and slender diet, avoiding all strong liquors, spiceries, and high seasoned food. They ought likewise to guard against all violent passions, and to avoid the extremes of heat and cold. The head should be shaved, and daily washed with cold water. The feet ought to be kept warm, and never suffered to continue long wet. The body must be kept open either by food or medicine, and a little blood may be let every spring and fall. Exercise should by no means be neglected; but it ought to be taken in moderation. Nothing has a more happy effect in preventing an apoplexy than perpetual issues or setons; great care however must be taken not to suffer them to dry up, without opening others in their stead. Apoplectic persons ought never to go to rest with a full stomach, or to lie with their heads low, or wear any thing too tight about their necks.

CHAPTER XLIV.

Of Costiveness, and other Affections of the Stomach and Bowels.

E do not here mean to treat of those astrictions of the bowels which are the symptoms of diseases, as of the cholic, the iliac passion, &c. but only to take notice of that infrequency of stools which sometimes happens, and which in some particular

constitutions may occasion diseases.

Costiveness may proceed from drinking rough red wines, or other astringent liquors; too much exercise, especially on horse-back, or from a long use of cold insipid food, which does not sufficiently stimulate the intestines. Sometimes it is owing to the bile not descending to the intestines, as in the jaundice; and at other times it proceeds from diseases of the intestines themselves, as a pally, spasms, torpor, tumours of the intestines, &c.

Excessive costiveness is apt to occasion pains of the head, vemiting, colics, and other complaints of the bowels. It is peculiarly hurtful to hypochondriac and hysteric persons, as it generates wind and other grievous symptoms. Some people can bear costiveness to a great degree. I know persons who enjoy pretty good health, yet do not go to stool above once a-week, and others not above once a-fortnight. I have heard of some who do not go above

once a-month.

Perfons who are generally costive should live upon a moistening and laxative diet, as roasted or boiled apples, pears, stewed prunes, raisins, gruels with currants, butter, honey, sugar, and such-like. Broths with spinage, leeks, and other soft pot-herbs, are likewise proper. Rye-bread, or that which is made of a mixture of wheat and rye together, ought to be eaten. No person troubled with costiveness should eat white bread alone, especially that which is made of sine flour. The best bread for keeping the body soluble is what in some parts of England they call mession. It is made of a mixture of wheat and rye, and is very agreeable to those accustomed to it.

Costiveness is encreased by keeping the body too warm, and by every thing that promotes the perspiration; as wearing slannel, lying too long a-bed, &c. Intense thought and a sedentary life, are likewise hurtful. All the secretions and excretions are promoted by moderate exercise without doors, and by a gay, cheerful, sprightly temper of mind.

The drink should be of an opening quality. Ardent spirits, austere and astringent wines, as port, claret, &c. ought to be avoided. Malt-liquor that is fine, and of a moderate strength, is very

proper. Butter-milk, whey, and other watery liquors, are likewife-

proper, and may be drank in turns, as inclination directs.

Those troubled with costiveness, ought, if possible, to remedy it by diet, as the constant use of medicines for that purpose is attended with many inconveniencies, and often with bad consequences*. I never knew any one get into a habit of taking medicine for keeping the body open, who could leave it off. In time, the custom becomes necessary, and generally ends in a total relaxation of the bowels, indigestion, loss of appetite, wasting of the strength, and death.

When the body cannot be kept open without medicine, we recommend gentle doses of castor-oil, slour of sulphur, and cream of tartar, to be taken twice or thrice a-week. This is not near so injurious to the stomach as aloes, jalap, or the other drastic purgatives so much in use. Insusions of senna and manna may likewise be taken, or half an ounce of soluble tartar dissolved in watergruel. About the size of a nutmeg of lenitive electuary taken twice or thrice a-day generally answers the purpose very well.



Want of Appetite.

THIS may proceed from a foul stomach; indigestion; the want of free air and exercise; grief; fear; anxiety; or any of the depressing passions; excessive heat; the use of strong broths, fat meats, or any thing that palls the appetite, or is hard of digestion; the immoderate use of strong liquors, tea, tobacco, opium, &c.

The patient ought, if impossible, to make choice of an open dry air; to take exercise daily on horseback or in a carriage; to rise

* Dr. Arbuthnot advises those who are troubled with costiveness to use animal oils, as fresh butter, cream, marrow, fat broths, especially those made of internal parts of animals, as the liver, heart, midriss, &c. the expressed oils of mild vegetables, as olives, almonds, pastaches, and the fruits themselves; all oily and mild fruits, as sigs; decoctions of mealy vegetables; these lubricate the intestines; some saponaceous substances which stimulate gently, as honey, hydromel, or boiled honey

and water, unrefined fugar, &c.

He observes, that such lenitive substances are proper for persons of dry atrabilarian constitutions, who are subject to astriction of the belly, and the piles, and will operate when stronger medicinal substances are sometimes ineffectual; but that such lenitive diet hurts those whose bowels are weak and lax. He observes, that all watery substances are lenitive, and that even common water, whey, sour milk, and butter milk have that effect;—that new milk, especially assemble, simulates still more when it sources ou the stomach; and that whey turned sour will purge strongly;—that most garden fruits are likewise laxative; and that some of them, as grapes, will throw such as take them immoderately into a cholera morbus, or incurable diarrhoea.

betimes; and to avoid all intense thought. He should use a diet of

easy digestion; and avoid excessive heat and fatigue.

If want of appetite proceeds from errors in diet, or any other part of the patient's regimen, it ought to be changed. If naufea and reachings flow that the flomach is loaded with crudities, a vomit will be of fervice. After this a gentle purge or two, of any of the bitter purging falts, may be taken. The patient ought next to use fome of the stomachic bitters insused in wine. Though gentle evacuations be necessary, yet strong purges and vomits are to be avoided, as they weaken the stomach, and hurt digession.

Elixir of vitriol is an excellent medicine in most cases of indigestion, weakness of the stemach, or want of appetite. From twenty to thirty drops of it may be taken twice or thrice a day in a glass of wine and water. It may likewise be mixed with the tincture of the bark, one drachm of the former to an ounce of the latter, and

two tea-spoonfuls of it taken in wine or water, as above.

The chalybeate waters, if drank in moderation, are generally of confiderable fervice in this case. The salt water has likewise good effects, but must not be used too freely. The waters of Harrowgate, Scarborough, Mosiat, and most other Spas in Britain, may be used with advantage. All who are afflicted with indigestion and want of appetite, should repair to these places of public rendezvous. The very change of air, and the cheerful company, will be of service; not to mention the exercise, dissipation, amusements, &c.

The Heart-Burn,

AS it is commonly called, is not a disease of that organ, but an uneasy sensation of heat or acrimony about the pit of the stomach, which is sometimes attended with anxiety, nausea, and vo-

miting.

It may proceed from debility of the stomach, indigestion, bile, the abounding of an acid in the stomach, &c. Persons liable to this complaint ought to avoid stale liquors, acids, windy or greafy aliments, and should never use violent exercise soon after a pientiful meal. Many persons have the heart-burn if they ride soon after dinner, provided they have drank ale, wine, or any fermented liquor; but are never troubled with it when they have drank rum, or brandy and water without any sugar or acid.

When the heart-burn proceeds from debility of the stomach, or indigestion, the patient ought to take a dose or two of rhubarb; afterwards he may use infusions of the bark, or any other of the stomachic bitters, in wine or brandy. Exercise in the open air

will be of use, and every thing that promotes digestion.

When bilious humours occasion the heart-burn, a tea-spoonful of the sweet spirit of nitre in a glass of water, or a cup of tea, will generally give ease. If it proceeds from the use of greasy aliments,

a drachm of brandy or rum may be taken.

If acidity or fourness of the stomach occasions the heart-burn. absorbents are the proper medicines. In this case, an ounce of powdered chalk, half an ounce of fine fugar, and a quarter of an ounce of gum-arabic, may be mixed in an English quart of water, and a tea-cupful of it taken as often as is necessary. Such as do not choose chalk may take a tea-spoonful of prepared oyster-shells, or of the powder called crabs-eyes, in a glass of cinnamon or pepper-mint water. But the safest and best absorbent is magnesia alba. This not only acts as an absorbent, but likewise as a purgative; whereas chalk and other absorbents of that kind, are apt to lie in the intesstines and occasion obstructions. This powder is not disagreeable, and may be taken in a cup of tea, or a glass of mint-water. A large tea-spoonful is the usual dose; but it may be taken in a much greater quantity when there is occasion. These things are now generally made up into lozenges for the conveniency of being carried in the pocket, and taken at pleasure.

If wind causes this complaint, the most proper medicines are carminatives; as annifeeds, juniper-berries, ginger, canella alba, cardamon seeds, &c. These may either be chewed, or insused in wine, brandy, or other spirits. One of the safest medicines of this kind is the tincture made by insusing an ounce of rhubarb, and a quarter of an ounce of the lesser cardamon seeds, in an English pint of brandy. After this has digested for two or three days, it ought to be strained, and sour ounces of white sugar-candy added to it. It must stand to digest a second time till the sugar be dissolved. A table-spooful of it may be taken occasionally for a dose.

I have frequently known the heart-burn cured, particularly in

pregnant women, by chewing green tea.

CHAPTER XLV.

Nervous Difeases

RE, of all those incident to mankind, the most complicated and difficult to cure. A volume would not be sufficient to point out their various appearances. They imitate almost every disease; and are seldom alike in two different persons, or even in the same person at different times. They are continually changing shape; and upon every fresh attack, the patient thinks he feels symptoms which he never experienced before. Nor do they only affect the body; the mind likewise suffers, and is often rendered extremely weak and peevish. The low spirits, timorousness, melancholy,

and fickleness of temper, which generally attend nervous disorders, induce many to believe that they are entirely diseases of the mind; but this change of temper is rather a consequence, than

the cause of nervous diseases.

CAUSES.—Every thing that tends to relax or weaken the body, disposes it to nervous diseases, as indolence, excessive venery, drinking too much tea, or other weak watery liquors warm, frequent and copious bleeding, purging, vomiting, &c. Whatever hurts the digestion, or prevents the proper assimilation of the food has likewise this effect; as long fasting, excess in eating or drinking, the use of windy, crude, or unwholesome aliments, an unfa-

vourable posture of the body, &c.

Nervous disorders often proceed from intense application to study. Few studious persons are entirely free from them. Nor is this to be wondered at; intense thinking not only preys upon the spirits, but prevents the person from taking proper exercise, by which means the digestion is impaired, the nourishment prevented, and the solids relaxed. Grief and disappointment likewise produce the same effects. More nervous patients date the commencement of their disorders from the loss of a husband, a favourite child, or from some disappointment in life, than from any other cause. Whatever weakens the body, or depresses the spirits, may occasion nervous disorders, as unwholesome air, want of sleep, great satigue, disagreeable apprehensions, anxiety, vexation, &c.

SYMPTOMS.—We shall only mention some of the most general symptoms of these disorders, as it would be both an use-less and an endless task to enumerate the whole. They generally begin with windy inflations or distentions of the stomach and intestines; the appetite and digestion are usually bad; yet sometimes there is an uncommon craving for food, and a quick digestion. The food often turns four on the stomach; and the patient is troubled with vomiting of clear water, tough phlegm, or a black-iss-coloured liquor, resembling the grounds of cosses. Exeruciating pains are often selt about the navel, attended with a rumbling or murmuring noise in the bowels. The body is sometimes loose, but more commonly bound, which occasions a retention of wind and great uneassitess.

The urine is fometimes in finall quantity, at other times very copious and quite clear. There is a great straitness of the breast, with dissiculty of breathing; violent palpitations of the heart; studen stuffings of heat in various parts of the body; at other times a sense of cold, as if water were poured on them; slying pains in the arms and limbs; pains in the back and belly, resembling those occasioned by gravel; the pulse very variable, sometimes uncommonly slow, and at other times very quick; yawning, the hiccup, frequent sighing, and a sense of suffication, as if from a ball or lump in the throat; alternate sits of crying and convul-

five laughing; the fleep is unfound and feldom refreshing; the

patient is often troubled with the night-mare.

As the disease increases, the patient is molested with head-achs, cramps, and fixed pains in various parts of the body; the eyes are clouded, and often affected with pain and dryness; there is a noise in the ears, and often a dulness of hearing; in short, the whole animal functions are impaired. The mind is disturbed on the most trivial occasions, and is hurried into the most perverse commotions, inquietudes, terror, sadness, anger, dissidence, &c. The patient is apt to entertain wild imaginations and extravagant fancies; the memory becomes weak, and the judgment fails.

Nothing is more characteristic of this disease than a constant dread of death. This renders those unhappy persons who labour under it, peevish, siekle, impatient, and apt to run from one physician to another; which is one reason why they seldom reap any benefit from medicine, as they have not sufficient resolution to persist in any one course till it has time to produce its proper effects. They are likewise apt to imagine that they labour under diseases from which they are quite free; and are very angry if any one attempts to set them right, or laugh them out of their notions.

REGIMEN. - Persons afflicacit with nervous diseases ought never to fast long. Their food should be solid and nourishing, but of easy digestion. Fat meats and heavy sauses are hurtful. All excefs should be carefully avoided. They ought never to eat more at a time than they can eafily digeft; but if they feel themselves weak and faint between meals, they ought to eat a bit of bread, and drink a glass of wine. Heavy suppers are to be avoided. Though wine in excess enfeebles the body, and impairs the faculties of the mind, yet taken in moderation, it strengthens the stomach, and promotes digestion. Wine and water is a very proper drink at meals; but if wine fours on the stomach, or the patient is much troubled with wind, brandy and water will answer better. Every thing that is windy or hard of digestion must be avoided. All weak and warm liquors are hurtful, as tea, coffee, punch, &c. People may find a temporary relief in the use of these, but they always increase the malady, as they weaken the stomach and hurt digestion. Above all things, drams are to be avoided. Whatever immediate eafe the patient may feel from the use of ardent spirits, they are sure to aggravate the malady, and prove certain poison at last. These cautions are the more necessary, as most nervous people are peculiarly fond of tea and ardent spirits; to the use of which many of them fall victims.

Exercise in nervous disorders is superior to all medicines. Riding on horseback is generally esteemed the best, as it gives motion to the whole body without ratiguing it. I have known patients with whom walking agreed better, and others who were most benefited by riding in a carriage. Every one ought to use that which

he finds most beneficial. Long fea-voyages have an excellent effect; and to those who have sufficient resolution, we recommend this course. Even change of place, and the sight of new objects, by diverting the mind, have a great tendency to remove these complaints. For this reason, a long journey, or a voyage, is of much more advantage than riding short journeys near home.

A cool and dry air is proper, as it braces and invigorates the whole body. Few things tend more to relax and enervate than hot air, especially that which is rendered so by great fires, or stoves in small apartments. But when the stomach or bowels are weak, the body ought to be well guarded against cold, especially in winter, by wearing a thin flannel waistcoat next the skin. This will keep up an equal perspiration, and defend the alimentary canal from many impressions to which it would otherwise be subject, upon every sudden change from warm to cold weather. Rubbing the body frequently with a flesh-brush, or a coarse linen cloth, is beneficial, as it promotes the circulation, perspiration, &c. Persons who have weak nerves ought to rise early, and take exercise before breakfast, as lying too long a-bed cannot fail to relax the folids. They ought to be diverted, and kept as eafy and cheerful as possible. Nothing hurts the nervous system, or weakens the digestive powers, more than fear, grief, or anxiety.

MEDICINES.—Nervous diseases are seldom radically cured, yet their symptoms may sometimes be alleviated, and life render-

ed more comfortable by proper medicines.

When the patient is cossive, he ought to take a little rhubarb, or some other mild purgative, and should never suffer his body to be long bound. All strong and violent purgatives are to be avoided, as aloes, jalap, &c. I have generally seen an infusion of senna and rhubarb in brandy answer very well. This may be made of any strength, and taken in such quantity as the patient finds necessary. When digestion is bad, or the stomach relaxed and weak, the following insusion of bark and other bitters may be used with advantage:

Take of Peruvian bark an ounce, gentian-root, orange-peel, and coriander-feed, of each half an ounce; let these ingredients be all bruised in a mortar, and insafed in a bottle of brandy or whiskey, for the space of sive or six days. A table-spoonful of the strained liquor may be taken in half a glass of water, an hour

before breakfait, dinner, and supper.

Few thing tend more to strengthen the nervous system than cold bathing. This practice, if duly persisted in, will produce very extraordinary effects; but when the liver or other viscera are obstructed, or otherwise unsound, the cold bath is improper. It is therefore to be used with very great caution. The most proper seasons are summer and autumn. It will be sufficient, especially for persons of a spare habit, to go into the cold bath three or four times

a week. If the patient be weakened by it, or feels chilly for a long

time after coming out, it is improper.

In patients afflicted with wind, I have always observed the greatest benefit from the clixir of vitriol. It may be taken in the quantity of sifteen, twenty, or thirty drops, twice or thrice a-day in a glass of water. This both expels wind, strengthens the stomach, and promotes digestion.

Opiates are generally extolled in these maladies; but as they only palliate the symptoms, and generally afterwards increase the disease, we advise people to be extremely sparing in the use of them,

lest habit render them at last absolutely necessary.

It would be an eafy matter to enumerate many medicines which have been extolled for relieving nervous diforders; but whoever wishes for a thorough cure must expect it from regimen alone; we shall therefore omit mentioning more medicines, and again recommend the strictest attention to diet, air, exercise, and amusements.

Melancholy

IS that state of alienation or weakness of mind which renders people incapable of enjoying the pleasures, or performing the duties of life. It is a degree of infanity, and often terminates in absolute madness.

CAUSES.——It may proceed from an hereditary disposition; intense thinking, especially where the mind is long occupied about one object, violent passions or affections of the mind, as love, sear, joy, grief, overweening pride, and such-like. It may also be occasioned by excessive venery; narcotic or stupesactive poisons; a sedentary life; folitude; the suppression of customary evacuations; acute severs or other diseases. Violent anger will change melancholy into madness; and excessive cold, especially of the lower extremities, will force the blood into the brain, and produce all the symptoms of madness. It may likewise proceed from the use of aliment that is hard of digestion, or which cannot be easily assimilated, from a callous state of the integuments of the brain. To all which, we may add gloomy or mistaken notions of religion.

SYMPTOMS.—When perfons begin to be melancholy, they are timorous; watchful; fond of folitude; fretful; captious and inquisitive; folicitous about trifles; fometimes niggardly, and at other times prodigal. The body is generally bound; the urine thin, and in small quantity; the stomach and bowels instated with wind; the complexion pale; the pulse slow and weak. The functions of the mind are also greatly perverted; the patient often imagines himself dead, or changed into some other animal. Some have imagined their bodies were made of glass, or other brittle

fubstances, and were afraid to move lest they should be broken to pieces. The patient, in this case, unless carefully watched, is apt

to put an end to his own life.

When the disease is owing to an obstruction of customary evacuations, or any bodily disorder, it is easier cured than when it proceeds from affections of the mind, or any hereditary taint. 'A discharge of blood from the nose, looseness, scabby eruptions, the bleeding piles, or the menses, sometimes carry off this disease.

REGIMEN.—The diet should consist chiefly of vegetables of a cooling and opening quality. Animal food, especially salted or smoke-dried fish or slesh, ought to be avoided. All kinds of shell-fish are bad. Aliments prepared with onions, garlic, or any thing that generates thick blood, are likewise improper. All kinds of fruits that are wholesome may be eaten with advantage. Boerhaave gives an instance of a patient, who, by a long use of whey, water, and garden fruit, recovered, after having evacuated a great quantity of black-coloured matter.

Strong liquors of every kind ought to be avoided as poison. The most proper drink is water, whey, or very small beer. Tea and coffee are improper. If honey agrees with the patient, it may be eaten freely, or his drink may be sweetened with it. Insusions of balm-leaves, penny-royal, the roots of wild valerian, or the flowers of the lime-tree, may be drank freely, either by themselves, or

fweetened with honey, as the patient shall choose.

The patient ought to take as much exercise in the open air as he can bear. This tends to remove obstructions, promotes the perspiration, and all the other secretions. Every kind of madness is attended with a diminished perspiration; all means ought therefore to be used to promote that necessary and salutary discharge. Nothing can have a more direct tendency to increase the disease than confining the patient to a close apartment. Were he forced to ride or walk a certain number of miles every day, it would tend greatly to alleviate his disorder; but it would have still a better effect, if he were obliged to labour a piece of ground. By digging, hoeing, planting, fowing, &c. both the body and mind would be exercised. A long journey, or a voyage, especially towards a warmer climate, with agreeable companions, has often very happy effects. A plan of this kind, with a strict attention to dier, is a much more rational method of cure, than confining the patient within doors and plying him with medicines.

MEDICINE.—In the cure of this difease, particular attention must be paid to the mind. When the patient is in a low state, his mind ought to be soothed and diverted with variety of amusements, as entertaining stories, pastimes, music, &c. This seems to have been the method of curing melancholy among the Jews, as we learn from the story of Saul; and it is a very rational one. Nothing can remove diseases of the mind so effectually, as applications to the mind itself, the most efficacious of which is

music. The patient's company ought likewise to consist of such persons as are agreeable to him. People in this state are apt to conceive unaccountable aversions against particular persons; and the very sight of such persons is sufficient to distract their minds,

and throw them into the utmost perturbation.

When the patient is high, evacuations are necessary. In this case, he must be bled, and have his body kept open by purging medicines, as manna, cream of tartar, or the soluble tartar. I have seen the last have very happy effects. It may be taken in the dose of half an ounce, dissolved in water gruel, every day, for sundry weeks, or even for months, if necessary. More or less may be given according as it operates. Vomits have likewise a good effect; but they must be pretty strong, otherwise they will not operate.

Whatever increases the evacuation of urine or promotes perfpiration, has a tendency to remove this disease. Both these secretions may be promoted by the use of nitre and vinegar. Half a drachm of purified nitre may be given three or four times a-day in any manner that is most agreeable to the patient; and an ounce and a half of distilled vinegar may be daily mixed with his drink. Dr. Locker seems to think vinegar the best medicine that can be

given in this disease.

Camphire and musk have been used in this case with advantage. Ten or twelve grains of camphire may be rubbed in a mortar, with half a drachm of nitre, and taken twice a-day, or oftener, if the stomach will bear it. If it will not sit upon the stomach in this form, it may be made into pills with gum asassected and Russian castor, and taken in the quantity above directed. If musk is to be administered, a scruple or twenty-sive grains of it may be made into a bolus with a little honey or common syrup, and taken twice or thrice a-day. We do not mean that all these medicines should be administered at once; but which ever of them is given, must be duly persisted in, and where one fails, another may be tried.

As it is very difficult to induce patients, in this difease, to take medicines, we shall mention a few outward applications, which sometimes do good; the principal of these are issues, setons, and warm bathing. Issues may be made in any part of the body, but they generally have the best effect near the spine. The discharge from these, may be greatly promoted, by dressing them with the mild blistering ointment, and keeping what are commonly called the orrice pease in them. The most proper place for a seton is between the shoulder-blades; and it ought to be placed upwards

and downwards, or in the direction of the spine.

The Palfy

IS a loss or diminution of fense or motion, or of both, in one or more parts of the body. Of all the affections called nervous, this is the most suddenly fatal. It is more or less dangerous, according to the importance of the part affected. A palfy of the heart, lungs, or any part necessary to life, is mortal. When it affects the stomach, the intestines, or the bladder, it is highly dangerous. If the sace be affected, the case is bad, as it shows that the disease proceeds from the brain. When the part affected feels cold, is insensible, or wastes away, or when the judgment and memory begin to fail, there is small hope of a cure.

CAUSES.—The immediate cause of palfy is any thing that prevents the regular exertion of the nervous power upon any particular muscle or part of the body. The occasional and predisposing causes are various, as drunkenness; wounds of the brain, or spinal marrow, pressure upon the brain or nerves; very cold or damp air; the suppression of customary evacuations; sudden sear; want of exercise; or whatever greatly relaxes the system, as drinking much tea*, or cossee, &c. The palfy may likewise proceed from wounds of the nerves themselves, from the poisonous sumes

of metals or minerals, as mercury, lead, arfnic.

In young perfons of a full habit, the palfy must be treated in the fame manner as the fanguine apoplexy. The patient must be bled, bliftered, and have his body opened by sharp clysters or purgative medicines. But, in old age, or when the discase proceeds from relaxation or debility, which is generally the case, a quite contrary course must be pursued. The diet must be warm and invigorating, feafoned with spicy and aromatic vegetables, as mustard, horse-radish, &c. The drink may be generous wine, mustard, whey, or brandy and water. Friction with the flesh-brush, or a warm hand, is extremely proper, especially on the parts affected. Blisters may likewise be applied to the affected parts with advantage. When this cannot be done, they may be rubbed with the volatile liniment, or the nerve ointment of the Edinburgh dispensatory. One of the best external applications is electricity. The shocks, or rather vibrations, should be received on the part affected; and they ought daily to be repeated for feveral weeks.

. Cephalic snuff, or any thing that makes the patient sneeze, is

^{*} Many people imagine, that tea has no tendency to hart the nerves, and that drinking the same quantity of warm water would be equally pernicious. This, however, seems to be a mistake. Many persons drink three or four cups of warm milk and water daily, without feeling any bad consequences; yet the same quantity of tea will make their hands shake for twenty-four hours. That tea affects the nerves, is likewise evident, from its preventing sleep, occasioning giddiness, dunness of the sight, sickness, &c.

likewise of use. Some pretend to have found great benefit from rubbing the parts affected with nettles; but this does not seem to be any way preferable to blistering. If the tongue is affected, the patient may gargle his mouth frequently with brandy and mustard; or he may hold a bit of sugar in his mouth wet with compound spirits of lavender. The wild valerian-root is a very proper medicine in this case. It may either be taken in an insuson with sageleaves, or half a drachm of it in powder may be given in a glass of wine three times a-day. If the patient cannot use the valerian, he may take of sal volatile elecsum, compound spirits of lavender, and tincture of castor, each half an ounce; mix these together, and take forty or sifty drops in a glass of wine three or four times a-day. A table-spoonful of mustard-seed taken frequently is a very good medicine. The patient ought likewise to chew cinnamon-bark, ginger or other warm spiceries.

Exercise is of the utmost importance in the palfy; but the patient must beware of cold, damp, and moist air. He ought to wear flannel next his skin; and if possible, should remove into a war-

mer climate.

Tetanus, or the Locked-Jaw.

UNDER this term may be comprehended the spasmodic affections, called emprosthotonos, opishhotonos, and trismus, being one disease, dissering only in the degree of its violence. When the body and head are bended forwards, it is called emprosthotonos; when they are carried backwards, and immovably fixed, it bears the appellation of opishhotonos; and when the body is sustained in an erect position, by the muscle on the fore and back part of the trunk acting with equal strength, the disease is called tetanus. When the muscles of the jaw become more particularly affected, it is called trismus, or locked jaw.

These spasmodic complaints affect both sexes, and no age is exempted from their violence. They affect the male oftener than the female, and more particularly those people who inhabit warm climates, and every climate at the warm season of the year. Some-

times they occur in winter, independent of wounds.

CAUSES.—Wounds in any part of the bedy are fometimes fucceeded by this disease. But more particularly from those in tendons, where a trisling injury will not unfrequently produce this complaint, when it is least expected. Whereas, at other times, a wound of considerable magnitude, under apparently similar circumstances, will have no such effect: and, even after operations in tendenous parts, it is by no means a frequent occurrence; when at other times, a simple fracture of the leg will produce it in all

its force. Cold, when accompanied with moisture, will produce this difease; particularly when the body is exposed while assep, on a damp pavement, or in a damp cellar, immediately after being heated and satigued by exercise. Children are frequently

feired with this disease in a short time after delivery.

SYMPTOMS. This discase, if it is from the effects of cold, generally comes on of a fudden. But when from a wound, it gradually approaches about the tenth, fourteenth, or twentieth days after the accident. It often comes on at a time when the wound gives but little uneafiness, and is nearly healed. The patient first complains of an uneasy sensation at the lower part of the breast bone, with a stiffness in the back part of the neck and muscles, of the lower jaw, which increase with a painful fensation at the root of the tongue, and a flight difficulty in fwallowing. But no appearance of swelling can be observed in the throat. The muscles of the back now become rigid. This rigidity in a short time extends to those of the neck, attended with a pain in the direction of the spine of the back. At length the head, neck, and back bone are forcibly bent backwards. The body becomes fixed in that position. The muscles of the jaw are now violently affected, attended with an impossibility of swallowing. Even liquids are thrown forcibly back through the nofe. These symptoms generally take place on the fecond or third day, when the body is frequently seized with violent convulfive spasms; and the pain at the lower part of the breaft bone increases, which shoots through towards the back.

The muscles of the limbs now become rigid, and the body is so much bent backwards as to rest on the back part of the head and heels. As the disease advances, the convulsive spassins become more violent. At length tetanus is produced, from the muscles on the fore and back part of the trunk, acting with an equal degree of vigour, sustaining the body in an erect position. The pulse is generally frequent with the other symptoms of sever, particularly when the disease is the consequence of cold. The bowels are generally costive, attended with a retraction of the belly. The urine is discharged with difficulty, and sometimes a suppression of that evacuation takes place. The sace appears pale, expressive of great anxiety and distress. The patient is seldom, if ever, delirious, although he slumbers but little, from which he frequently awakes on a sudden, with violent spasses. At length, the muscular system becomes more generally affected, and one universal convulsion closes the miserable existence of the patient.

MEDICINE.——In our attempt to cure this difease, the indications are nearly the same, when produced from cold or the consequence of a wound, except when the wound is without swelling and inflammation. It should then be dilated and dressed, with lint dipped in warm basilicon, or any other stimulating application. After this, two, three, or even sour grains of opium should be given three or four times a day, according to the urgency of the symp-

toms, and tendency to induce fleep; for aftonishing quantities of this medicine may be given without having the least tendency to make the patient flumber. This remedy should be administered early, as well as large quantities of Madeira wine, before the fwallowing becomes interrupted; and the fystem should be charged with mercury, with as much expedition as possible. For this purpose, two for three drachms of mercurial ointment must be rubbed into the inside of the legs, thighs, and arms, morning and evening, and likewife into the muscles more particularly affected with spasms. To co-operate with those medicines, the cold bath must be used, or cold water thrown over the body. The bowels should be kept open with calomel, castor-oil, and clysters. All those remedies must be used at an early period of the complaint, fo as to make as formidable an attack as possible on this very formidable disease, which too frequently terminates in the death of the patient, in spite of every effort to save him.

When it is about to take place in infants, the bowels must be opened with calomel or castor oil. But where it has actually taken place, little can be done. However, a similar plan may be used

with that recommended in grown persons.

- MERNATURE -

Of the Epilepsy or Falling Sickness.

THE epilepfy is a fudden deprivation of all the fenses, wherein the patient falls suddenly down, and is affected with violent convultive motions. Children, especially those who are delicately brought up, are most subject to it. It more frequently attacks men than women, and is very difficult to cure. When the epilepsy attacks children, there is reason to hope that it will go off about the time of puberty. When it attacks any person after twenty years of age, the cure is disficult; but when after forty, a cure is hardly to be expected. If the sit continues only for a short space, and returns seldom, there is reason to hope; but if it continues long, and returns frequently, the prospect is bad. It is a very unfavourable symptom when the patient is seized with the fits in his sleep.

CAUSES.—The epilepfy is fometimes hereditary. It may likewife proceed from blows, bruifes, or wounds on the head; a collection of water, blood, or ferous humours in the brain; a polypus; tumours or concretions within the skull; excessive drinking; intense study; excess of venery; worms; teething; suppression of customary evacuations; too great emptiness or repletion; violent passions or affections of the mind, as fear, joy, &c; hysteric affections; contagion received into the body, as the infection of the

fmall-pox, meafles, &c.

SYMPTOMS.——An epileptic fit is generally preceded by unufual wearinefs; pain of the head; dullnefs; giddinefs; noise in the ears; dimnefs of fight; palpitation of the heart; disturbed sleep; difficult breathing; the bowels are inslated with wind; the urine is in great quantity, but thin; the complexion is pale; the extremities are cold; and the patient often feels, as it were, a stream of cold

In the fit, the patient generally makes an unufual noise; his thumbs are drawn in towards the palms of his hands; his eyes are distorted; he starts, and foams at the mouth; his extremities are bent or twisted various ways; he often discharges his seed, urine, and seces involuntarily; and is quite destitute of all sense and reation. After the fit is over, his senses gradually return, and he complains of a kind of stuper, weariness, and pain of his head; but has no remembrance of what happened to him during the fit.

The fits are fometimes excited by violent affections of the mind,

a debauch of liquor, excessive heat, cold, or the like.

air afcending towards his head.

This difease, from the difficulty of investigating its causes, and its strange symptoms, was formerly attributed to the wrath of the gods, or the agency of evil spirits. In modern times it has often, by the vulgar, been imputed to witcherast. It depends as much upon natural causes as any other malady; and its cure may often be effected by persisting in the use of proper means.

RÉGIMEN.—Epileptic patients ought, if possible, to breathe a pure and free air. Their diet should be light but nourishing. They ought to drink nothing strong, to avoid swine's slesh, water fowl, and likewise all windy and oily vegetables, as cabbage, nuts, &c. They ought to keep themselves cheerful, carefully guarding against all violent passions, as anger, fear, excessive joy, and the like.

Exercise is likewise of great use; but the patient must be careful to avoid all extremes either of heat or cold, all dangerous situations, as standing upon precipices, riding, deep waters, and such like.

MEDICINE.—The intentious of cure must vary according to the cause of the disease. If the patient be of a sanguine temperament, and there be reason to sear an obstruction in the brain, bleeding and other evacuations will be necessary. When the disease is occasioned by customary evacuations, these, if possible, must be restored; is this cannot be done, others may be substituted in their place. Issues or sections in this case have often a very good effect. When there is reason to believe that the disease proceeds from worms, proper medicines must be used to kill, or carry off these vermin. When the disease proceeds from teething, the body should be kept open by emollicint clysters, the feet frequently bathed in warm water, and, if the fits prove obstinate, a bifter may be put betwixt the shoulders. The same method is to be followed, when epileptic fits precede the eruption of the small-pox, or measles, &c.

When the difease is hereditary, or proceeds from a wrong formation of the brain, a cure is not to be expected. When it is owing to a debility, or too great an irritability of the nervous fystem, such medicines as tend to brace and strengthen the nerves may be used.

as the Peruvian bark, steel, &c.

The flowers of zinc have of late been highly extolled for the cure of the epilepfy. This medicine will not answer the expectations which have been raised concerning it, yet in obstinate epileptic cafes, it deserves a trial. The dose is from one to three or four grains, which may be taken either in pills or a bolus, as the patient inclines. The best method is to begin with a single grain four or five times a-day, and gradually to increase the dose as far as the patient can bear it. I have known this medicine, when duly persisted in, prove heneficial

Musk has sometimes been found to succeed in the epilepsy. Ten or twelve grains of it, with the same quantity of sactitious cinnabar, may be made up into a bolus, and taken every night and morning.

Sometimes the epilepfy has been cured by electricity.

Convulsion-fits proceed from the same causes, and must be treat-

ed in the same manner as the epilepsy.

There is one particular species of convulsion-fits which commonly goes by the name of St. Vitus's dance, wherein the patient is agitated with strange motions and gesticulations, which, by the common people, are generally believed to be the essects of witchcraft: This disease may be cured by repeated bleedings and purges; and afterwards using the medicines prescribed above for the epilepsy, viz. the Peruvian bark and snake-root, &c. Chalybeate waters are found to be beneficial in this case. The cold bath is likewise of singular fervice, and ought never to be neglected when the patient can bear it.

The Hiccup

IS a fpaimodic or convultive affection of the ftomach and midriff, ariting from any caufe that irritates their nervous fibres.

It may proceed from excefs in cating or drinking; from a hurt of the ftomach; poifons; inflammations or fchirrous tumours of the ftomach, inteffines, bladder, midriff, or the reft of the *wifeera*. In gangrenes, acute and malignant fevers, a hiccup is often the forerunner of death.

When the hiccup proceeds from the use of aliment that is slatulent, or hard of digestion, a draught of generous wine, or a drachm of any spirituous liquor, will generally remove it. If posson be the cause, plenty of milk and oil must be drank, as has been formerly recommended. When it proceeds from an inslammation of the stomach, &c. it is very dangerous. In this case, the cooling regimen ought to be strictly observed. The patient must be bled, and take

frequently a few drops of the fweet spirits of nitre in a cup of winewhey. His stomach should likewise be somented with cloths dipped in warm water, or have bladders, filled with warm milk and wa-

ter, applied to it.

When the hiccup proceeds from a gangrene or mortification, the bark, and other antifeptics, are the only medicines which have a chauce to fucceed. When it is a primary difease, and proceeds from a foul stomach, loaded with a bilious humour, a gentle vomit and purge, if the patient be able to bear them, will be of service. If it arises from statulencies, the carminative medicines directed for the heart-burn must be used.

When the hiccup proves very obstinate, recourse must be had to the most powerful aromatic and antispasmodic medicines. The principal of these is musk; fifteen or twenty grains of which may be made into a bolus, and repeated occasionally. Opiates are of service; but they must be used with caution. A bit of sugar, dipped in compound spirits of lavender, or the volatile aromatic tincture, may be taken frequently. External applications are sometimes also beneficial; as the stomach plaister, or a cataplasm of the Venice treacle of the Edinburgh or London dispensatory, applied to the region of the stomach.

I lately attended a patient who had almost a constant hiccup for above nine weeks. It was frequently stopped by the use of musk, opium, wine, and other cordial and antispasmodic medicines, but always returned. Nothing gave the patient so much ease as brisk small-beer. By drinking freely of this, the hiccup was often kept off for several days, which was more than could be done by the most powerful medicines. The patient was at length seized with a vomiting of blood, which soon put an end to his life. Upon opening the body, a large schirrous turnour was found near the pylorus or right crifice of the stomach.

Cramp of the Stomach.

THIS difease often seizes people suddenly, is very dangerous, and requires immediate affistance. It is most incident to persons in the decline of life, especially the nervous, gouty, hysteric, and hypochondriac.

If the patient has any inclination to vomit, he ought to take fome draughts of warm water, or weak camonile-tea, to cleanfe his stomach. After this, if he has been costive, a laxative clyster may be given. He ought then to take laudanum. The best way of administering it is in a clyster. Sixty or seventy drops of liquid laudanum may be given in a clyster of warm water. This is much more cer-

tain than laudanum given by the mouth, which is often vomited, and in fome cases, increases the pain and spasms in the stomach*.

If the pain and cramps return with great violence, after the effects of the anodyne clyfter are over, another, with an equal or a larger quantity of opium, may be given; and every four or five hours a bolus, with ten or twelve grains of mulk, and half a drachm of the Venice treacle.

In the mean time, the stomach ought to be fomented with cloths dipped in warm water, or bladders, filled with warm milk and water, should be constantly applied to it. I have often seen these produce the most happy effects. The anodyne balfam may also be rubbed on the part affected; and an antihysteric plaister worn upon it for some time after the cramps are removed, to prevent their re-

In very violent and lafting pains of the stomach, some blood ought to be let, unless the weakness of the patient forbids it. When the pain or cramps proceed from a suppression of the menses, bleeding is of use. If they be owing to the gout, recourse must be had to spirits, or some of the warm cordial waters. Blisters ought likewise, in this case, to be applied to the ancles. I have often seen violent cramps and pains of the stomach removed, by covering it with a large plaister of Venice treacle.

Of the Night-Mare.

IN this difease, the patient, in time of sleep, imagines he feels an uncommon oppression or weight about his breast or stomach, which he can by no means shake off. He groans, and sometimes cries out, though oftner he attempts to speak in vain. Sometimes he imagines himfelf engaged with an enemy, and in danger of being killed, attempts to run away, but finds he cannot. Sometimes he fancies himfelf in a house that is on fire, or that he is in danger of being drowned in a river. He often thinks he is falling over a precipice, and the dread of being dashed to pieces suddenly awakes him.

This diforder has been supposed to proceed from too much blood: from a stagnation of blood in the brain, lungs, &c. But it is rather a nervous affection, and arifes chiefly from indigeftion. Perfous of weak nerves, who lead a fedentary life, and live full, are most commonly afflicted with the night-mare. Nothing tends more to produce it than heavy suppers, especially when eaten late, or the patient goes to bed soon after. Wind is a very frequent cause of this

{I. C. cieus.

^{*} Landanum should always be tried by the mouth in large doses, as it can be given without delay; which is of the unmost confequence in fo dangerous a difease. (I. C.)

The patient may go into the warm bath, which is more effica-

disease; for which reason, those who are afflicted with it, ought to avoid all statulent food. Deep thought, anxiety, or any thing that

oppresses the mind, ought to be avoided.

As perfons afflicted with the night-mare generally moan, or make fome noise in the fit, they should be waked, or spoken to by such as hear them, as the uneasiness generally goes off as soon as the patient is awake. Dr. Whytt says, he generally found a dram of brandy, taken at bed-time, prevent this disease. That, however, is a bad custom, and in time loses its effect. The patient should rather depend upon the use of food of easy digestion, cheerfulness, exercise through the day, and a light supper taken early, than accustom himself to drams. A glass of peppermint-water will often promote digestion as much as a glass of brandy, and is much safer. After a perton of weak digestion, however, has eaten slatulent sood, a dram may be necessary; in this case, it is the most proper medicine.

Of Swoonings.

PEOPLE of weak nerves or delicate conflitutions, are liable to fwoonings or fainting fits. These are feldom dangerous when duly attended to; but when wholly neglected, or improperly treated,

they often prove hurtful, and fometimes fatal.

The general causes of fwoonings are, sudden transition from cold to heat; breathing air that is deprived of its proper spring or elasticity; great satigue; excessive weakness; loss of blood; long safting; fear, grief, and other violent passions or affections of the mind.

Perfons who have been long exposed to cold, often faint or fall into a fwoon, upon coming into the house, especially if they drink hot liquor, or sit near a large fire. This might easily be prevented by people taking care not to go into a warm room immediately after they have been exposed to the cold air, to approach the fire gradually, and not to eat or drink any thing hot, tall the body has been

gradually brought into a warm temperature.

When any one, in confequence of neglecting these precautions, salls into a twoon, he ought immediately to be removed to a cooler apartment, to have ligatures applied above his knees and elbows, and to have his hands and face sprinkled with vinegar or cold water. He should likewise be made to smell to vinegar, and should have a spoonful or two of water, if he can swallow, with about a third-part of vinegar mixed with it, poured into his mouth. If these should not remove the complaint, it will be necessary to bleed the patient, and afterwards to give him a clyster.

As air that is breathed frequently lofes its elafticity or fpring, it is no wonder, is perform who respire in it, often fall into a two or or tainting fit. They are, in this cate, deprived of the very principle

of life. Hence it is, that fainting fits are fo frequent in all crowded affemblies, especially in hot feasons. Such fits, however, must be considered as a kind of temporary death; and, to the weak and delicate, they sometimes prove fatal. They ought, with the utmost care, to be guarded against. The method of doing this is obvious. Let affembly-rooms, and all other places of public refort, be large and well ventilated; and let the weak and delicate avoid such places, particularly in warm feasons.

A person who faints, in such a situation, ought immediately to be carried into the open air; his temples should be rubbed with strong vinegar or brandy, and volatile spirits or falts held to his nose. He should be laid upon his back with his head low, and have a little wine, or some other cordial, as soon as he is able to swallow it, poured into his mouth. If the person has been subject to hysteric sits, castor or afascetida should be applied to the nose, or burnt feathers,

horn, or leather, &c.

When fainting-fits proceed from mere weakness or exhaustion, which is often the case after great satigue, long sasting, loss of blood, or the like, the patient must be supported with generous cordials, as jellies, wines, spirituous liquors, &c. These, however, must be given at first in very small quantities, and increased gradually as the patient is able to bear them. He ought to be allowed to lie quite still and easy upon his back, with his head low, and should have fresh air admitted into his chamber. His food should consist of nourishing broths, sago-gruel with wine, new milk, and other things of a light and cordial nature. These thing are to be given out of the fit. All that can be done in the sit is, to let him smell to a bottle of Hangary-water, east de luce, or spirits of hartshorn, and to rub his temples with warm brandy, or to lay a compress dipped in it to the pit of the stomach.

In fainting-fits that proceed from fear, grief, or other violent paffions or affections of the mind, the patient must be very cautiously managed. He should be suffered to remain at rest, and only made to smell some vinegar. After he is come to himself, he may drink freely of warm lemonade, or balm-tea, with some orange or lemonpeel in it. It will likewise be proper, if the fainting-fits have been long and severe, to clean the bowels by throwing in an emollient

clyster.

It is common in fainting-fits, from whatever cause they proceed, to bleed the patient. This practice may be very proper in strong persons of a full habit; but in those who are weak and delicate, or subject to nervous disorders, it is dangerous. The proper method with such people is, to expose them to the free air, and to use cordial and stimulating medicines, as volatile salts, Hungary-water, spirits of lavender, tincture of callor, and the like.

Of Flatulencies, or Wind.

Al.L nervous patients, without exception, are affiicted with wind or flatulencies in the stomach and bowels, which arise chiefly from the want of tone or vigour in these organs. Crude, slatulent aliment, as green pease, beans, coleworts, cabbages, and such-like, may increase this complaint; but strong and healthy people are seldom troubled with wind, unless they either overload their stomachs, or drink liquors that are in a fermenting state, and consequently sull of elastic air. While, therefore, the matter of slatulence proceeds from our aliments, the cause which makes air separate from them, in such quantity as to occasion complaints, is almost always a fault of the boweis themselves, which are too weak either to prevent the production of elastic air, or to expel it after it is produced.

To relieve this complaint, such medicines ought to be used as have a tendency to expel wind, and by strengthening the alimen-

tary canal, to prevent its being produced there*.

The lift of medicines for expelling wind is very numerous; they often disappoint the expectations of both the physician and his patient. The most celebrated among the class of carminatives are junipar-berries; the roots of ginger and zedoary; the feeds of anise, caraway, and coriander; gum assected and opium; the warm waters, tinctures, and spirits, as the aromatic water, the tincture of woodfoot, the volatile aromatic spirit, ether, &c.

Dr. Whytt fays, he found no inedicines more efficacious in expelling wind than æther and laudanum. He generally gave the laudanum in a mixture with peppermint-water and tineture of castor, or sweet spirits of nitre. Sometimes, in place of this, he gave opium in pills with afasectida. He observes, that the good effects of opiates are equally conspicuous, whether the slatulence be contained in the stomach or intestines; whereas, those warm medicines, commonly called carminatives, do not often give immediate relief, except when the wind is in the stomach.

With regard to bether, the Doctor fays, he has often feen very good effects from it in flatuient complaints, where other medicines failed. The dose is a tea-spoonful mixed with two table-spoonfuls of water. In gouty cases, he observes, that bether, a glass of French brandy, or of the aromatic water, or ginger, either taken in sub-

^{*} Many nervous people find great benefit from eating a dry bifeuit, effecially when the florach is empty. This is one of the belt carminative medicines in all complaints of the florach, arifing from flatulence, indigenion, &c.

[†] Though the patient may begin with this quantity, it will be necessary to increase the dole gradually as the stomach can bear it. Ather is now given in considerably greater doses than it was in Dr. Whyte's rime,

stance or infused in boiling water, are among the best medicines

for expelling wind.

When the case of statulent patients is such as makes it improper to give them warm medicines inwardly, he recommends external applications, which are sometimes of advantage. Equal parts of the anti hysteric and stomach plaister may be spread upon a piece of soft leather, of such size as to cover the greater part of the belly. This should be kept on for a considerable time, provided the patient be able to bear it; if it should give great uneasiness, it may be taken off, and the following liniment used in its stead:

Take of Bates's anodyne balfam an ounce; of the expressed oil of mace half an ounce; oil of mint two drachms. Let these be mixed together, and about a table-spoonful well rubbed on the

parts at bed-time.

For strengthening the stomach and bowels, and lessening the production of slatulence, the Doctor recommends the Peruvian bark, bitters, chalybeates, and exercise. In slatulent cases, he thinks some nutmeg or ginger should be added to the tincture of the bark and bitters, and that the aromatic powder should be joined with the filings of iron.

When windy complaints are attended with costiveness, which is often the case, few things will be found to answer better than four or five of the following pills taken every night at bed-time.

Take of asafætida, two drachms; succerrine aloes, salt of iron, and powdered ginger, of each one drachm; as much of the elixir

proprietatis as will be fufficient to form them into pills.

On the other hand, when the body is too open, twelve or fifteen grains of rhubarb, with half a drachm, or two scruples of the Japonic confection, given every other evening, will have very good effects.

In those flatulent complaints which come on about the time the menses cease, repeated small bleedings often give more relief than

any other remedy.

With regard to diet, the Doctor observes, that tea, and all flatulent aliments, are to be avoided; and that for drink, water with a little brandy or rum is preferable to malt liquor, and in most cases

to wine.

Dr. Whytt has paid great attention to this subject; his sentiments upon it, in a great measure, agree with mine. I shall only add to his observation, that exercise is, in my opinion, superior to all medicine, both for preventing the production and likewise for expelling of slatulencies. These effects are not to be expected from sauntering about, or lolling in a carriage; but from labour, or such active amusements as give exercise to every part of the body.

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Of Low Spirits.

ALL who have weak nerves are fubject to low spirits in a greater or less degree. Generous diet, the cold bath, exercise, and amusements are the most likely means to remove this complaint. It is greatly increased by solitude and indulging gloomy ideas; but may often be relieved by cheerful company and sprightly amusements.

When low fpirits are owing to a weak relaxed state of the stormach and bowels, an infusion of the bark with cinnamon or nutmeg will be proper. Steel joined with aromatics may be used with advantage; but riding, and a proper diet, are most to be depended on.

When they arise from a foulness of the stomach and intestines, or obstruction in the hypochondriac viscera, aloetic purges will be proper. I have known the Harrowgate sulphur-water of service in

When low fpirits proceed from a suppression of the menstrual or of the hæmorrhoidal flux, these evacuations may either be restored, or some others substituted in their place, as issues, setons, or the like. Dr. Whytt observes, that nothing has such sudden good effects in this case as bleeding, if the strength of the patient will admit of it.

When low fpirits have been brought on by long continued grief, anxiety, or other diffress of mind, agreeable company, variety of amusements, and change of place, especially travelling into foreign

countries, will afford the most certain relief.

Perfors afflicted with low spirits should avoid all kinds of excess, especially of venery and strong liquors. The moderate use of wine and other strong liquors is by no means hurtful; but when taken to excess, they weaken the stomach, and depress the spirits. This caution is the more necessary, as the unfortunate and melancholy often sly to strong liquors for relief, by which means they never fail to precipitate their own destruction.

Of Hysteric Affections.

THESE likewise belong to the numerous tribe of nervous diseases, which may be justly reckoned the reproach of medicine. Women of a delicate habit, whose stomach and intestines are relaxed, and whose nervous system is extremely sensible, are most subject to hysteric complaints. In such persons, an hysteric fit, as it is called, may be brought on by an irritation of the nerves of the stomach or intestines, by wind, acrid humour, or the like. A sudden suppression of the menses often gives rise to hysteric sits. They may likewise

Ro

be excited by violent passions or affections of the mind, as fear,

grief, anger, or great disappointments.

Sometimes the hysteric fits resemble a swoon or fainting fit, during which the patient lies as in a fleep, only the breathing is fo low as scarce to be perceived. At other times the patient is affected with catchings and strong convulsions. The symptoms which precede hysteric fits are likewise various in different persons. Sometimes the fits come on with coldness of the extremitics, yawning and stretching, lowness of spirits, oppression and anxiety. At other times the approach of the fit is foretold by a feeling, as if there were a ball at the lower part of the belly, which gradually rifes towards the stomach, where it occasions inflation, sickness, and fometimes vomiting; afterwards it rifes into the gullet, and occafions a degree of fuffocation, to which quick breatling, palpitation of the heart, giddiness of the head, dimness of the sight, loss of hearing, with convulfive motions of the extremities and other parts of the body, fucceed. The hysteric paroxysm is often introduced by an immoderate fit of laughter, and fometimes it goes off by crying. Indeed, there is not much difference between the laughing and crying of an highly hysteric lady.

Our aim in the treatment of this difease must be to shorten the fit or paroxysm when present, and to prevent its return. The longer the fits continue, and the more frequently they return, the disease becomes the more obstinate. Their strength is increased by habit, and they induce so great a relaxation of the system, that it is

with difficulty removed.

It is customary, during the hysteric sit or paroxysin, to bleed the patient. In strong persons of a plethoric habit, and where the pulse is full, this may be proper; but in weak and delicate constitutions, or where the disease has been of long standing, or arises from inanition, it is not safe. The best course in such cases is to rouse the patient by strong smells, as burnt feathers, as afascida, or spirits of hartshorn, held to the nose. Hot bricks may be applied to the soles of the feet, and the legs, arms, and belly may be strongly rubbed with a warm cloth. But the best application is to put the feet and legs into warm water. This is peculiarly proper when the fits precede the flow of the menses. In case of costiveness, a laxative clyster with asascida will be proper; and as soon as the patient can swallow, two table-spoonfuls of a solution of asascida may be given*.

The radical cure of this diforder will be best attempted at a time when the patient is most free from the fits. It will be greatly pro-

^{*} When hysteric fits are occasioned by sympathy, they may be cured by exciting an opposite passion. This is said to have been the case of a whole school of young ladies in Holland, who were all cured by being told, that the first who was seized should be burnt to death. But this method of cure, to my knowledge, will not always succeed. I would therefore advice, that young ladies who are subject to hysteric fits, should not be sent to boarding schools, as the disease may be caught by imitation. I have known madness itself brought on by sympathy.

moted by a proper attention to diet. A milk and vegetable diet when duly perfifted in, will often perform a cure. If however the patient has been accustomed to a more generous diet, it will not be fafe to leave it off all at once, but by degrees. The most proper drink is water, with a fmall quantity of spirits. A cool dry air is the best. Cold bathing and every thing that braces the nerves, and invigorates the fystem, is beneficial; but lying too long in bed, or whatever relaxes the body, is hurtful. It is of the greatest importance to have the mind kept constantly easy and cheerful, and, if possible, to have it always engaged in some agreeable and interesting pursuit.

The proper medicines are those which strengthen the alimentary canal and the whole nervous fystem, as the preparations of iron, the Peruvian bark, and other bitters. Twenty drops of the elixir of vitriol, in a cup of the infusion of the bark, may be taken twice or thrice a-day. The bark and iron may likewise be taken in substance, provided the stomach can bear them; but they are generally given in too small doses to have any effect. The chalybeate waters

generally prove beneficial in this diforder.

If the stomach is loaded with phlegm, vomits will be of use; but they should not be too strong, nor frequently repeated, as they tend to relax and weaken the stomach. If there be a tendency to costiveness, it must be removed either by diet, or by taking an

opening pill as often as it shall be found necessary.

To lessen the irritability of the system, antispasmodic medicines will be of use. The best antispasmodic medicines are musk, opium, and caftor. When opium difagrees with the stomach, it may either be applied externally, or given in clysters. It is often successful in removing those periodical head-achs to which hysteric and hypochondriae patients are fubject. Caftor has in some cases been found to procure fleep where opium failed; for which reason, Dr. Whytt advises, that they should be joined together. He likewise recommends the antihysteric plaister to be applied to the abdomen*.

Hysteric women are often afflicted with cramps in various parts of the body, which are most apt to seize them in bed, or when afleep. The most efficacious medicines in this case are opium, blifters, and warm bathing or fomentations. When the cramp or fpalm is very violent, opium is the medicine most to be depended on. In milder cases, immersing the feet and legs in warm water, or applying a blifter to the part affected, will often be sufficient to remove the complaint. In patients whose nerves are uncommonly delicate and fensible, it will be better to omit the blister, and to attempt the cure by opiates, musk, camphire, and the warm bath.

Cramps are often prevented or cured by compression. cramps in the legs are prevented, and sometimes removed, by tight

Though antispasinodics and anodynes are universally recommended in this difeafe, yet all the extraordinary cures that I ever knew in hyfteric cases, were performed by means of tonic and corroborating media cines.

bandages; and when convulsions arise from a flatulent distention of the intestines, or from spassins beginning in them, they may be often lessened or cured by making a pretty strong compression upon the abdomen by means of a broad belt. A roll of brimstone held in the hand is frequently used as a remedy for cramps. Though this seems to owe its effect chiefly to imagination; yet, as it sometimes succeeds, it merits a trial*. When spassins or convulsive motions arise from sharp humours in the stomach and intestines, no lasting relief can be procured till these are either corrected or expelled. The Peruvian bark has sometimes cured periodic convulsions after other medicines had failed.

Of Hypochondriac Affections.

THIS disease generally attacks the indolent, the luxurious, the unfortunate, and the studious. It becomes daily more common in this country, owing, no doubt, to the increase of luxury and sedentary employments. It has so near a resemblance to the immediately preceding, that many authors consider them as the same disease, and treat them accordingly. They require however a very different regimen; and the symptoms of the latter, though less violent, are more permanent than those of the former.

Men of a melancholy temperament, whose minds are capable of great attention, and whose passions are not easily moved, are, in the advanced periods of life, most liable to this disease. It is usually brought on by long and serious attention to abstruse subjects, grief, the suppression of customary evacuations, excess of venery, the repulsion of cutaneous eruptions, long-continued evacuations, obstruc-

tions in fome of the viscera, as the liver, spleen, &c.

Hypochondriac persons ought never to sast long, and their sood should be solid and nourishing. All acescent and windy vegetables are to be avoided. Flesh meats agree best with them, and their drink should be old claret, or good Madeira. Should these disagree with the stomach, water with a little brandy or rum in it may be drank.

Cheerfulness and serenity of mind are by all means to be cultivated. Exercise of every kind is useful. The cold bath is likewise beneficial; and, where it does not agree with the patient, frictions with the slesh-brush or a coarse cloth may be tried. If the patient has it in his power, he ought to travel either by sea or land. A voyage or a long journey, especially towards a warmer climate, will be of more service than any medicine.

^{*} Some persons afflicted with cramps pretend to reap great benefit from small bundles of rosemary tied all night about their feet, ancles, and knees.

The general intentions of cure, in this disease, are to strengthen the alimentary canal, and to promote the secretions. These intentions will be best answered by the different preparations of iron and the bark, which, after proper evacuations, may be taken as directed

in the preceding disease.

If the patient be costive, it will be necessary to make use of some gentle opening medicine, as pills composed of equal parts of aloes, rhubarb, and asascetida, with as much of the elixir proprietatis as is necessary to form the ingredients into pills. Two, three, or four, of these may be taken as often as it shall be found needful, to keep the body gently open. Such as cannot bear the asascetida may substitute Spanish soap in its place.

A cheerful glass may have good effects in this disease, but all manner of excess is hurtful. Intense study, and every thing that de-

presses the spirits, are likewise pernicious.

Though the general fymptoms and treatment of nervous diforders were pointed out in the beginning of this chapter; yet, for the benefit of the unhappy persons afflicted with these obstinate and complicated maladies, I have treated several of their capital symptoms under distinct or separate heads. These are not to be considered as different diseases, but as various modifications of the same disease. They all arise from the same general causes, and require nearly the same method of treatment. There are many other symptoms that merit particular attention, which the nature of my plan will not permit me to treat of at sull length. I therefore omit them, and conclude this chapter with a few remarks on the means of preventing or avoiding nervous disorders.

In all persons thus afflicted, there is a great delicacy and sensibility of the whole nervous tystem, and an uncommon degree of weakness of the organs of digestion. These may be either natural or acquired. When owing to a defect in the constitution, they are hardly to be removed; but may be mitigated by proper care. When induced by diseases, as long or repeated severs, profuse hæmorrhages, or the like, they prove also very obstinate, and will yield only to a course of regimen calculated to restore and invigorate the habit.

But nervous affections arise more frequently from causes, which it is, in a great measure, in our power to avoid, than from diseases, or an original fault in the constitution, &c. Excessive grief, intense study, improper diet, and neglect of exercise, are the great sources

of this extensive class of diseases.

Grief indulged, destroys the appetite and digestion, depresses the spirits, and induces an universal relaxation and debility of the whole system. Instances of this are daily to be seen. The loss of a near relation, or any other missortune in life, often occasions the most complicated series in nervous symptoms. Such missortunes are not to be avoided, but their essects, by a vigorous and proper exertion of the mind, might be rendered less hurtful. We refer the reader to the article GRIEF, in the chapter on the passions.

The effects of intense study are pretty similar to those occasioned by grief. It preys upon the animal spirits, and destroys the appetite and digestion. To prevent these effects, studious persons ought, according to the poet, to toy with their books*. They should never study too long at a time; nor attend long to one particular subject, especially if it be of a serious nature. They ought likewise to be attentive to their posture, and take care frequently to unbend their minds by music, diversions, or going into agreeable company.

With regard to diet, nervous difeases may be induced either by excess or ination. Both of these extremes hurt the digestion. When Nature is oppressed with fresh loads of sood, before she has had time to digest and assimilate the former meal, her powers are weakened. On the other hand, when the food is not sufficiently nourishing, or is taken too feldom, the bowels are instated with wind. These extremes are with equal care to be avoided. They both tend to induce a relaxation, and debility of the nervous system, with all its consequences.

The most general curse of nervous disorders is indelence. The active and laborious are seidom troubled with them. They are referved for the children of ease and assume, who generally seel their keenest force. The means of prevention and cure are both in their power. If the constitution of human mature be such, that man must either labour or suffer diseases, no individual has a right to expect

exemption from the general rule.

Those who are willing to take exercise, but whose occupations confine them to the house, and perhaps to an unfavourable posture,

deferve pity.

We have, in the former part of this book, endeavoured to lay down rules for their conduct; and where these cannot be complied with, their place may, in some measure, be supplied by the use of bracing and strengthening medicines, as the bark, with other bitters; the preparations of steel; the elixir of vitriol, &c.

CHAPTER XLVI.

Disorders of the Senses.

E do not mean to give a description of the organs by which the senses are performed; but to point out some of the diseases to which these organs are most liable, and to shew how they may be prevented or remedied.

^{*} Armstrong on health.

Of the Eye.

NO organ of the body is subject to more diseases than the eye; nor is there any one of which the diseases are more dissicult to cure. Though more ignorant persons pretend to cure these than any other class of diseases; yet a very superficial acquaintance with the structure of the eye, and the nature of vision, will be sufficient to convince any one of the danger of trusting to them. These diseases often exceed the skill of the most learned physician; hence we may infer the danger of trusting them to ignorant quacks, who put out more eyes than they cure. But, though the diseases of the eye can seldom be cured, they might often, by due care, be prevented; and, even where the sight is totally lost, many things might be done, which are generally neglected, to render the person both more useful to himself and to society*.

The eyes are hurt by viewing bright or luminous objects; keeping the head too long in a hanging pofture; violent head-achs; exectfive venery; the long use of bitters; the effluvia from acrid or volatile substances; various diseases; as the small-pox, measles, &c. but, above all, from night-watching, and eandle-light studies. Long fasting is likewise hurtful to the eyes, and frequent heats and colds are no less pernicious. The eyes are often hurt by the stoppage of customary evacuations; as morning sweats; sweating of the seet; the menses in women; and the bleeding piles in men. All kinds of excess are hurtful to the sight, particularly the immoderate use of ardent spirits and other strong liquors.

In all difeases of the eyes, especially those attended with inflammation, the eool regimen ought to be observed. The patient must abstain from all spirituous liquors. The smoke of tobaceo, smoky rooms, the vapours of onions and garlic, and all vivid lights and glaring colours, are earefully to be avoided. The drink may be water, whey, or small beer; and the aliment must be light and of ea-

sy digestion.

For preventing disorders of the eyes, issues and setons are of prime use. Every person, whose eyes are tender, ought to have one or more of these in some part of the body. It will likewise be of use to keep the body gently open, and either to bleed or purge every

It is pity those who have the missortune to be born blind, or who lose their sight when young, should be suffered to remain in ignorance, or to beg. This is both cruelty and want of economy. There are many employments of which blind persons are very capable, as knitting, carding, turning a wheel, teaching languages, &c. Nor are instances wanting of persons who have arrived at the highest pitch of learning, without having the least idea of light. Witness the late famous Nicholas Sanderson of Cambridge, and Dr. Thomas Blacklock of Edinburgh. The former was one of the first mathematicians of his age, and the latter, besides being a good poet and philosopher, is master of all the learned languages, and a very considerable adept in the liberal arts.

fpring and fall. All excess and night studies are to be avoided. Such as do not choose a seton or an issue, will find benefit from wearing a

fmall Burgundy-pitch plaster between their shoulders.

A gutta serena, or amaurasis, is an abolition of the fight without any apparent cause or fault in the eyes. When it is owing to a decay or wasting of the optic nerve, it does not admit of a cure; but when it proceeds from a compression of the nerves by redundant humours, these may in some measure be drained off, and the patient relieved. For this purpose, the body must be kept open with the laxative mercurial pills. If the patient be young and of a sanguine habit, he may be bled. Cupping, with searifications on the back part of the head, will likewise be of use. A running at the nose may be promoted by volatile salts, stimulating powders, &c. But the most likely means for relieving the patient, are issues or blisters kept open for a long time on the back part of the head, behind the ears, or on the neck. I have known these restore sight, even after it had been for a considerable time lost. Should these fail, recourse must be had to a mercurial salivation.*

A cataract is an obstruction of the pupil, by the interposition of some opaque substance, which either diminishes or totally extinguishes the sight. It is generally an opacity of the chrystalline humour. In a recent or beginning cataract, the same medicines are to be used as in the gutta series, and they will sometimes succeed. But when this does not happen, and the cataract becomes sirm, it must be couched, or rather extracted. I have resolved a recent cataract by giving the patient frequent purges with calomel, keeping a poultice of fresh hemlock constantly upon the eye, and a perpetual blister on the neck.

The myopia, or short-sightedness, and the presbyopia, or seeing only at too great a distance, are disorders which depend on the original structure or figure of the eye, therefore admit of no cure. The inconveniencies arising from them may however be, in some measure, remedied by the help of proper glasses. The former requires the aid

of a concave, and the latter of a convex glass.

A ftrabifmus or fquinting, depends upon an irregular contraction of the muscles of the eye from a spasm, palsy, epilepsy, or an ill habit. Children often contract this disorder by having their eyes unequally exposed to the light. They may likewise acquire it by imitation from a squinting nurse or play fellow, &c. As this disorder can hardly be cured, parents ought to be careful to prevent it. Almost the only thing which can be done for it, is to contrive a mask for the child to wear, which will only permit him to see in a straight direction.

Spots or specks on the eyes are generally the effect of inflammation, and often appear after the small-pox, the mealles, or violent ophthal-

^{*} Electuary has been known to have a good effect in this difease, particularly when applied to parts near the eyes. (1. C.)

mias. They are very dissicult to cure, and often occasion total blindness. If the specks are soft and thin, they may sometimes be taken off by gentle caustics and discutients; as vitriol, the juice of celandine, &c. When these do not succeed, a surgical operation may be tried: the success of which is always very doubtful.

The blood-flot eye may be occasioned by a stroke, a fall, retching, vomiting, violent coughing, &c. I have frequently known it happen to children in the hooping-cough. It appears at first like a bit of scarlet, and is afterwards of a livid or blackish colour. This disorder generally goes off without medicine. Should it prove obstinate, the patient may be bled, and have his eyes bathed with rich led water, and the body should be kept open by gentle purgatives.

The watery or weeping eye is generally occasioned by a relaxation or weakness of the glandular parts of that organ. These may be braced and strengthened by bathing the eye with brandy and water, Hungary-water, rose-water with white vitriol dissolved in it, &c. Medicines which make a revulsion are likewise proper; as mild purgatives, perpetual blisters on the neck, bathing the feet frequently in lukewarm water, &c.

When this disease proceeds from an obstruction of the lachrymal duct, or natural passage of the tears, it is called a sistual lachrymalis, and can only be cured by a surgical operation.

Of the Ear.

and the same

THE functions of the ear may be injured by wounds, ulcers, or any thing that hurts its fabric. The hearing may likewise be hurt by excessive noise; violent colds in the head; fevers, hard wax, or other substances sticking in the cavity of the ear; too great a degree of moisture or dryness of the ear. Deafness is very often the effect of old age, and is incident to most people in the decline of life. Sometimes it is owing to an original fault in the structure or formation of the ear itself. When this is the case, it admits of no cure; and the person not only continues deaf, but generally likewise dumb for life*.

When deafness is the effect of wounds or ulcers of the ears, or of old age, it is not easily removed. When it proceeds from cold

^{*} Though those born deaf are generally suffered to continue dumb, and confequently are, in a great measure, lost to society, yet nothing is more certain than that such persons may be taught not only to read and write, but also to speak, and to understand what others say to them. Teaching the dumb to speak will appear paradoxical to those who do not consider that the formation of sounds is merely mechanical, and may be taught without the assistance of the ear. This is not only capa-

of the heat, the patient must be careful to keep his head warm, of pecially in the night; he should likewise take some gentle purges, and keep his feet warm, and bathe them frequently in lukewarm water at bed-time. When deafness is the essect of a fever, it generally goes off after the patient recovers. If it proceeds from dry wax sticking in the ears, it may be softened by dropping oil into them*; afterwards they must be syringed with warm milk and water.

If deafness proceeds from dryness of the ears, which may be known by looking into them, half an ounce of the oil of sweet almonds, and the same quantity of liquid apodeldoch, or tincture of asacetida, may be mixed together, and a few drops of it put into the ear every night at bed-time, stopping them afterwards with a little wool or cotton. Some, instead of oil, put a small slice of the fut of bacon into each ear, which is said to answer the purpose very well. When the ears abound with moisture, it may be drained off by an iffue or seton, which should be made as near the affected parts as possible.

Some, for the cure of deafnefs, recommend the gall of an eel mixed with spirit of wine, to be dropped into the ear; others, equal parts of Hungary-water and spirit of lavender. Etmuller extols amber and musk; and Brookes says, he has often known hardness of hearing cured, by putting a grain or two of musk into the ear with cotton-wool. But these and other applications must be va-

ried, according to the cause of the disorder.

Though fuch applications may fometimes be of service, yet they much oftener fail, and frequently they do hurt. Neither the eyes nor

ble of demonstration, but is actually reduced to practice by Mr. Thoras Braidwood, of Edinburgh. This gentleman has, by the mere force of genius and application, brought the teaching of dumb persons to such degree of persection, that his scholars are generally more forward in their education than those of the same age who enjoy all their faculties. They not only read and write with the utmost readiness, but likewise speak, and are capable of holding conversation with any person in the light. What a pity any of the human species should remain in a state of iciotism who are capable of being rendered useful and intelligent. We mention this not only from humanity to those who have the missortune to be born deas, but also in justice to Mr. Braidwood, whose success has far exceeded all former attempts this way; and indeed it exceeds imagination itself so far, that no person who has not seen and examined his pupils, can believe what they are capable of. As this gentleman, however willing, is only able to teach a few, and as the far greater part of those who are born deaf cannot afford to attend him, it would be an act of great humanity, as well as of public utility, to erect an academy for their benefit.

^{*} Good effects have been derived from wearing a conical plug in the ear, made of the stalk of a green cabbage, which will, after a while, give out its water, and be more constantly applied in dissolving the wax, so as to prepare it for syringing with milk and water.

(I. C.)

cats ought to be tampered with; they are tender organs, and require a very delicate touch. I chiefly recommend in deafness to keep the head warm. From whatever cause the disorder proceeds this is always proper; and I have known more benefit from it alone, in the most obstinate cases of deafness, than from all the medicines I ever used.

The Taste and Smell

ARE not of fo great importance to man in a state of society, as the sight and hearing; yet, as the loss of them is attended with inconveniency, they deserve our notice. They are seldom to be restored when lost; which ought to make us very attentive to their preservation, by carefully avoiding whatever may injure them. As there is a very great assimity between the organs of tasting and smelling, whatever hurts the one generally affects the other.

Luxury is highly injurious to thefe organs. When the nofe and palate are frequently flimulated by fragrant and poignant dishes, they soon lose the power of distinguishing tastes and odours with any degree of nicety. Man, in a state of nature, may perhaps have

these faculties as acute as any other animal.

The fense of smelling may be diminished or destroyed by disease; as, the moisture, dryness, inflammation or suppuration of that membrane which lies the inside of the nose, commonly called the olsactory membrane; the compression of the nerves which supply this membrane, or some falt in the brain itself at their origin. A defect, or too great a degree of solidity, of the small spungy bones of the upper jaw, the caverns of the forchead, &c. may impair the sense of smelling. It may be injured by a collection of sectid matter in those caverns, which keeps constantly exhaling from them. Few things are more hurtful to the sense of smelling than quantities of snuff.

When the nose abounds with moisture, after gentle evacuations, such things as tend to take off irritation, and coagulate the thin, sharp ferum, may be applied; as the oil of anise mixed with fine flour; camphire diffolved in oil of almonds, &c. The vapours of amber, frankincense, gum-mastic, and benjamin, may likewise be received into the nose and mouth.

For moistening the mucus when it is too dry, some recommend some fulfill made of the leaves of marjoram, mixed with the oil of amber, marjoram and aniseed; or a sternutatory of calcined white vitriol; twelve grains of which may be mixed with two ounces of marjoramwater, and siltrated. The steam or vapour of vinegar upon hot iron received up the nostrils, is of use for softening the mucus, opening

obstructions, &c.

If there is an ulcer in the nose, it ought to be dressed with some emollient ointment, to which, if the pain be very great, a little laudanum may be added. If a venereal elect, it is not to be cured without mercury. In that case, the solution of the corrosive sublimate in brandy, may be taken, as directed in the gutta serena. The ulcer ought likewise to be washed with it; and the sumes of cinnabar may be received up the nostrils.

If there be reason to suspect that the nerves which supply the organs of smelling, are inert, or want stimulating, volatile salts, strong snusses, and other things which occasion sncezing, may be applied to the nose. The forehead may likewise be anointed with balsam of

Peru, to which may be added a little of the oil of amber.

The taste may be diminished by crusts, silth, mucus, aphtha, pellicles, warts, &c. covering the tongue: it may be depraved by a fault of the saliva, which, being discharged into the mouth, gives the same sensation, as if the food, which the person takes, had really a bad taste; or it may be entirely destroyed by injuries done to the nerves of the tongue and palate. Few things prove more liurtful either to the sense of tasting or smelling than obstinate colds, es-

pecially those which affect the head.

When the taste is diminished by filth, mucus, &c. the tongue ought to be scraped and frequently washed with a mixture of water, vinegar, and honey, or some other detergent. When the saliva is vitiated, which seldom happens unless in severe or other diseases, the curing of the disorder is the cure of this symptom. To leave it in the mean time, if there be a bitter taste, it may be taken away by vomits, purges, and other things which evacuate bile. What is called a nidorous taste, arising from putrid humours, is corrected by the juice of citrons, oranges, and other acids. A salt taste is cured by plentiful dilution with watery liquors. An acid taste is destroyed by absorbents, and alkaline salts, as powder of oyster-shells, salt of worm-wood, &c.

When the fensibility of the nerves which supply the organs of taste is diminished, the chewing of horse-radish, or other stimulating

substances, will help to recover it.

Of the Touch.

THE fense of touching may be hurt by any thing that obstructs the nervous influence, or prevents its being regularly conveyed to the organs of touching; as pressure, extreme cold, &c. It may likewise be hurt by too great a degree of sensibility, when the nerve is not sufficiently covered by the cuticle or scarf-skin, or where there

is too great a tension of it, or it is too delicate. Whatever disorders the functions of the brain and nerves, hurts the sense of touching. Hence it appears to proceed from the same general causes as palfy and apoplexy, and requires nearly the same method of treatment.

In a flupor, or defect of touching, which arises from an obstruction of the cutaneous nerves, the patient must first be purged; aftewards such medicines as excite the action of the nerves, or stimulate the system, may be used. For this purpose, the spirits of hartshorn, fal volatile clessian, horse-radish, &c. may be taken inwardly; the disordered parts, at the same time, may be frequently rubbed with sresh nettles or spirit of sal ammoniae. Blisters and sinapisms applied to the parts will likewise be of use, as also warm bathing, especially in the natural hot baths.

CHAPTER XLVII.

Of a Schirrus and Cancer.

SCHIRRUS is a hard indolent tumour feated in fome of the glands; as the breafts, the arm-pits, &c. If the tumour becomes large, unequal, of a livid, blackish, or leaden colour, and is attended with violent pain, it gets the name of an occult cancer. When the skin is broken, and a fanies or ichorous matter, of an abominably sectid smell is discharged from the fore, it is called an open or ulcerated cancer. Persons after the age of forty-sive, particularly women, and those who lead an indolent sedentary life, are

most subject to this disease.

CAUSES.——It is often owing to suppressed evacuations; hence it proves frequently satal to women of a gross habit, particularly old maids and widows, about the time when the menstrual flux ccases. It may be occasioned by excessive fear, grief, anger, religious melancholy, or any of the depressing passions. Hence, the unfortunate, the choleric, and those persons who devote themselves to a religious life in convents or monasteries, are often afflicted with it. It may be occasioned by the long-continued use of food that is too hard of digestion, or of an acrid nature; by barrenness; celibacy; indolence; cold; blows; friction; pressure, or the like. Women often suffer from the last of these, by means of their stays, which squeeze and compress their breasts so as to occasion great mischief. Sometimes the disease is owing to an hereditary disposition.

SYMPTOMS.—This diforder feems often very trifling at the beginning. A hard tumour about the fize of a hazle-nut, or perhaps fmaller, is generally the first fymptom. This will often continue for a long time without feeming to increase, or giving the patient great uneafiness; but if the constitution be hurt, or the tu-

mour irritated by pressure, or improper treatment of any kind, it begins to extend itself towards the neighbouring parts, by pushing out a kind of roots or limbs. It then gets the name of cancer, from a fancied resemblance between the limbs and the claws of a crab. The colour of the skin begins to change, which is first red, afterwards purple, then bluish, livid, and at last black. The patient complains of heat, with a burning, gnawing, shooting pain. The tumour is very hard, rough, and unequal, with a protuberance, or rising, in the middle; its size increases daily, and the neighbouring veins become thick, knotty, and of a blackish colour.

The skin at length gives way, and a thin, sharp ichor begins to slow, which corrodes the neighbouring parts till it forms a large unsightly ulcer. More occult cancers arise, and communicate with the neighbouring glands. The pain and stench become intollerable; the appetite fails; the strength is exhausted by a continual hestic sever; at last, a violent hamorrhage, or discharge of blood, from some part of the body, with saintings, or convulsion fits, generally

put an end to life.

REGIMEN.—The diet ought to be light, but nourishing. All strong liquors, and high-feasoned or salted provisions, are to be avoided. The patient may take as much exercise as he can easily bear; and should use every method to divert thought, and amuse his fancy. All kinds of external injury are carefully to be guarded against, particularly of the affected part, which ought to be defended from all pressure, and even from the external air, by covering it with fur or soft slannel.

MEDICINE.——For this difease no certain remedy is known. Its progress may sometimes be retarded, and some of its most difagreeable symptoms mitigated, by proper applications. One missortune attending the disease is, that the patient often conceals it too long. Were proper means used in due time, a cancer might often be cured; but after the disorder has arrived at a certain height, it

generally fets all medicine at defiance.

When a fchirrous tumour is first discovered, the patient ought to observe a proper regimen, and to take twice or thrice a-week, a dose of common purging mercurial pills. Some blood may also be let, and the part affected may be gently rubbed twice a-day with a little of the mercurial ointment, and kept warm with fur or flannel. The food must be light, and an English pint of the decoction of woods or sarsparilla may be drank daily. I have sometimes discussed hard tumours, which had the appearance of beginning cancers, by a course of this kind.

Should the tumour not yield to this treatment, but become larget and harder, it will be proper to extirpate it, either by the knife or caustic. Indeed, whenever this can be done with fasety, the sooner it is done the better. It can answer no purpose to extirpate a cancer after the constitution is ruined, or the whole mass of humours corrupted by it. This is the common way, which makes the operation

To foldom fucceed. Few people will fubmit to the extirpation till death stares them in the face; whereas, if it were done early, life would not be endangered by the operation, and it would generally

prove a radical cure.

When the cancer is fo fituated that it cannot be cut off, or if the patient will not fubmit to the operation, fuch medicines as will mitigate or relieve the most urgent symptoms may be used. Dr. Home says, that half a grain of the corrosive sublimate of mercury, dissolved in a proper quantity of brany, and taken night and morning, will often be of service in cancers of the face and nose. He likewise recommends an infusion of the solution, or night-shade, in cancers of the breasts.

The medicine most in repute for this disease is hemlock. Dr. Stork, physician at Vienna, has of late recommended the extract of this plant as very efficacious in cancers of every kind. The Doctor says, he has given some hundred weights of it without ever hurting any body, and often with manifest advantage. He advises the patient, however, to begin with very small doses, as two or three grains, and to increase the dose gradually till some good effect be perceived, and there to rest without further increase. From two or three grains at first, he says he has increased the dose to two, three, or four drachms a-day, and finds that such doses may be continued for several weeks without any bad consequences.

The regimen which he recommends during the use of the medicine, is to avoid farinaceous substances not fermented, and too acrid aromatics. He says, good wine will not be hurtful to those who are accustomed to it, nor a morderate use of acids; and adds, that the patient should live in a pure, free air, and keep his mind as quiet

and checrful as possible.

He does not pretend to fix the time in which a cancer may be refolved by the use of hemlock, but says, he has given it for above
two years in large doses without any apparent benefit; nevertheless,
the patient has been cured by persisting in the use of it for half ayear longer. This is, at least encouragement, to give it a fair trial.
Though we are far from thin ing hemlock merits those extravagant
encomiums which he has bestowed upon it, yet, in a disease which
has so long bassled the boasted powers of medicine, ought always
to be tried.

The powder of hemlock is by some preferred to the extract. They are both made of the fresh leaves, and may be used nearly in the same manner. Dr. Nicholson of Berwich, says, he gradually increased the dose of the powder from a few grains to half a drachm, and gave near four drachms of it in the day, with remarkably good effects. The hemlock may also be used externally either as a poultice or somentation. The sore may likewise be kept clean by injecting daily a strong decoction of the tops and leaves into it.

Few things contribute more to the healing of foul fordid ulcers of any kind than keeping them thoroughly clean. This ought never to

be neglected. The best application for this purpose seems to be the carrot poultice. The root of the common carrot may be grated, and moistened with as much water as will bring it to the consistence of a poultice or cataplasm. This must be applied to the fore, and renewed twice a-day. It generally cleans the fore, eases the pain, and takes away the disagreeable smell, which are objects of

Wort, or an infusion of malt, has been recommended, not only as a proper drink, but as a powerful medicine, in this disease. It must be frequently made fresh, and the patient may take it at pleasure. Two, three, or even four English pints of it may be drank every day for a considerable time. No benesit can be expected from any medicine in this disease, unless it be persisted in for a long time. It is of too obstinate a nature to be soon removed; and, when it admits of a cure at all, it must be brought about by inducing an almost total change of the habit, which must always be a work of time. Setons or issues in the neighbourhood of the cancer have sometimes good effects+.

When all other medicines fail, recourse must be had to opium, as a kind of solace. This will not indeed cure the disease, but it will ease the patient's agony, and render life more tolerable while it

continues.

To avoid this diforder, people ought to use wholesome food; to take sufficient exercise in the open air; to be as easy and cheerful as possible; and carefully to guard against all blows, bruises, and every kind of pressure upon the breasts or other glandular parts.

* London Medical Effays.

† In a cancer which had fet all medicines, and even furgery, at defiance, I lately faw remarkable effects from an obstinate perseverance in a course of antiseptics. I ordered the deep ulcers to be washed to the bottom, by means of a syringe, twice or thrice a-day, either with an infusion of the bark, or a decoction of carrot, and that the patient should take, four or five times a-day, a glass of good wine, with half a drachm of the best powdered bark in it. The fores, after being washed, were likewise sprinkled with the same powder. When the patient began this course, her death was daily expected. She continued it for above two years, with manifest advantage; but being told by an ement surgeon, that the bark would not cure a cancer, and that the fores ought not to be washed, she discontinued the practice, and died in a few weeks. This course was not expected to cure the cancer, but to prolong the patient's life, which it evidently did almost to a miracle.

[‡] As hemlock is the principal medicine recommended in this difeate, we would have given some directions for the gathering and preparing of that plant; but as its different preparations are now kept in the shops, it is much safer for people to get them there, with proper directions for using them.

CHAPTER XLVIII.

Of Poisons.

VERY person ought, in some measure, to be acquainted with the nature and cure of possons. They are generally taken unawares, and their effects are often so sudden and violent, as not to admit of delay, or time to procure the affistance of physicians. Happily no great degree of medical knowledge is here necessary; the remedies for most possons being generally at hand, or easily obtained, and nothing but common prudence needful in the application of them.

The vulgar notion, that every poison is cured by some counterpoison, as a specific, has done much hurt. People believe they can do nothing for the patient, unless they know the particular antidote to that kind of poison which he has taken. Whereas the cure of all poisons taken into the stomach, without exception, depends chief-

ly on discharging them as soon as possible.

There is no case wherein the indications of cure are more obvious. Poison is feldom long in the stomach before it occasions sickness, with an inclination to vomit. This shews plainly what lought to be done. Indeed common sense dictates to every one, that, if any thing has been taken into the stomach which endangers life, it ought immediately to be discharged. Were this duly regarded, the danger arising from poisons might generally be avoided. The method of prevention is obvious, and the means are in the hands of every one.

We shall not take up the reader's time with a detail of the ridiculous notions which have prevailed among ignorant people in different ages with regard to poisons; neither shall we mention the boasted antidotes, which have been recommended either for preventing or obviating their effects; but shall point out the poisons most common in this country, and the means of avoiding their dangerous consequences.

Poisons either belong to the mineral, the vegetable, or the animal

kingdom.

Mineral poisons are commonly of an acrid or corrosive quality;

as arfenic, cobalt, the corrofive sublimate of mercury, &c.

Those of the vegetable kind are generally of a narcotic or stuperactive quality; as poppy, hemlock, henbane, berries of the deadly night-shade, &c.

Poisonous animals communicate their infaction either by the bite or fling. This poison is very different from the former, and only produces its effects when received into the body by a wound.

MINERAL POISONS.—Arfenic is the most common of this class; and, as the whole of them are pretty similar both in their

effects and method of cure, what is faid with respect to it will be

applicable to every other species of corrosive poison*.

When a perfon has taken arfenic, he foon perceives a burning heat, and a violent pricking pain in his ftomach and bowels, with an intolerable thirst, and an inclination to vomit. The tongue and throat feel rough and dry; and, if proper means be not foon administered, the patient is scized with great anxiety, hiecupping, faintings, and coldness of the extremities. To these succeed black vomits, seed thousand the fools, with a mortification of the stomach and intestines, which are the immediate forerunners of death.

On the first appearance of these symptoms, the patient should drink large quantities of new milk and sullad-oil till he vomits; or he may drink warm water mixed with cil. Fat broths are likewise proper, provided they can be got ready in time. Where no oil is to be had, fresh butter may be melted and mixed with the milk or water. These thing are to be drank as long as the inclination to vomit continues. Some have drank eight or ten English quarts before the vomiting ceased; and it is never safe to leave off drinking while one

particle of the poison remains in the stomach.

These oily or fat substances not only provoke vomiting, but like-wise blunt the actimony of the poison, and prevent its wounding the bowels; but if they should not make the person vomit, half a drachm, or two scruples of the powder of ipecacuanha must be given, or a few spoonfuls of the oxymel or vinegar of squills may be mixed with the water which he drinks. Vomiting may likewise be excited, by tickling the inside of the throat with a feather. Should these methods, however, sail, half a drachm of white vitriol, or five or fix grains of emetic tartar, must be administered.

If tormenting pains are felt in the lower belly, and there is reason to fear that the poison has got down to the intestines, clysters of milk and oil must be very frequently thrown up; and the patient must drink emollient decoctions of barley, oat-meal, marsh-mallows, and such-like. He must likewise take an infusion of senna and man-

na, a folution of Glauber's falts, or fome other purgative.

After the poifon has been evacuated, the patient ought, for fome time, to live upon fuch things as are of a healing and cooling quality; to abstain from slesh and all strong liquors, and to live upon milk, broth, gruel, light puddings, and other spoon-meats of easy digestion. His drink should be barley-water, linseed-tea, or infusious of any of the mild mucilaginous vegetables.

VEGETABLE POISONS, besides heat and pain of the stomach, commonly occasion some degree of giddiness, and often a kind of stupidity or folly. Persons who have taken these poisons must be treated in the same manner as for the mineral or corrosive.

^{*} Corrosive sublimate is an exception when this posson has been taken, the patient sught to drink large quantities of pot-ass or falt of tartar, dissolved in water to re-compose the posson and render it inactive.

Though the vegetable poisons, when allowed to remain in the sto-mach, often prove satal; yet the danger is generally over as soon as they are discharged. Not being of such a caustic or corrosive nature, they are less apt to wound or inslame the bowels than mineral substances: no time ought to be lost in having them discharged.

Opium, being frequently taken by miftake, merits particular attention. It is used as a medicine both in a solid and liquid form, which latter commonly goes by the name of laudanum. It is, indeed, a valuable medicine when taken in proper quantity; but as an over-dose proves a strong poison, we shall point out its common

effects, together with the method of cure.

An over-dofe of opium generally occasions great drowfines, with stupor and other apoplectic symptoms. Sometimes the person has so great an inclination to sleep, that it is almost impossible to keep him awake. Every method must, however, be tried for this purpose. He should be tossed, snaked, and moved about. Sharp blisters should be applied to his legs or arms, and stimulating medicines, as falts of hartshorn, &c. held under his nose. It will also be proper to let blood. At the same time, every method must be taken to make him dicharge the poison. This may be done in the manner directed above, viz. by the use of strong vomits, drinking plenty of warm water with oil, &c.

Mead, befides vomits in this case, recommends acid medicines with lixivial salts. He says, that he has often given salt of wormwood mixed with juice of lemon in repeated doses with great

fucecfs.

If the body should remain weak and languid after the poison has been discharged, nourishing diet and cordials will be proper; but when there is reason to sear that the stomach or bowels are inflamed, the greatest circumspection is necessary, both with regard to food and medicine.

Of the Bitcs of Poisonous Animals.

WE shall begin with the bite of a mad dog, as it is both the most

common and dangerous animal-poifon in this country.

The creatures naturally liable to contract this difease are, as far as we yet know, all of the dog kind, viz. foxes, dogs, and wolves.—
Hence it is called the rabies canina, or dog madness. It so scldom happens that any person is bit by the first, that they searce deserve to be taken notice of. If such a thing should happen, the method of treatment is precisely the same as for the bite of a mad dog.

The fymptoms of madness in a dog are as follow: At first he looks dull, shows an aversion to food and company: he does not bark as usual, but seems to murmur, is peevish, and apt to bite

frangers: his cars and tail droop more than usual, and he appears drowfy: afterwards he begins to loll out his tongue, and freth at the mouth, his eyes seeming heavy and watery: he now, if not confined, takes off, runs panting along with a kind of dejected air, and endeavours to bite every one he meets. Other dogs are said to sly from him. Some think this a certain sign of madness, supposing that they knew him by the smell; but it is not to be depended on. If he escapes being killed, he seldom runs above two or three days, till he dies exhausted with heat, hunger, and satigue.

This difease is most frequent after long, dry, hot feasons; and fuch dogs as live upon putrid, stinking carrion, without having

enough of fresh-water, are most liable to it.

When any person has been bit by a dog, the strictest inquiry ought to be made, whether the animal was really mad. Many disagreeable consequences arise from neglecting to ascertain this point. Sempople have lived in continual anxiety for many years, because they had been bit by a dog which they believed to be mad; but as he had been killed on the spot, it was impossible to ascertain the sect. This should induce us, instead of killing a dog the moment he has bit any person, to do all in our power to keep him alive, at least till we can be certain whether he be mad or not.

Many circumstances may contribute to make people imagine a dog mad. He loofes his matter, runs about in quest of him, is set upon by other dogs, and perhaps by men. The creature thus frightened, beat and abused, looks wild, and lolls out his tongue as he runs along. Immediately a crowd is after him; while he, finding himself elosely pursued, and taking every one he meets for an enemy, naturally attempts to bite him in self-defence. He soon gets knocked on the head, and it passes currently that he was mad, as it

is then impossible to prove the contrary.

This being the true hiftory of, by far, the greater part of these dogs which pass for mad, is it any wonder that numberless whimfical medicines have been extolled for preventing the effects of their bite? This readily accounts for the great variety of infallible remedies for the bite of a mad dog, which are to be met with in almost every family. Though not one in a thousand has any claim to merit, yet they are all supported by numberless vouchers. No verder that imaginary diseases should be cured by imaginary remedies. In this way, credulous people first impose upon themselves, and then deceive others. The same medicine which was supposed to prevent the effects of the bite, when the dog was not mad, is recommended to a person who has had the mistortune to be bit by a dog that was really mad. He takes it, trusts to it, and is undone.

To these mistakes we must impute the frequent ill success of the medicines, used for preventing the effects of the bite of a mad doc. It is not owing so much to a defect in medicine, as to wrong applications. If proper medicines were administered immediately after the bite is received, and continued for a sufficient length of time, we should not lose one in a thousand of those bit by a mad deg.

This poison is generally communicated by a wound, which, nevertheless, heals as soon as a common wound: but afterwards it begins to feel painful, and as the pain spreads towards the neighbouring parts, the person becomes heavy and listless. His sleep is unquiet, with frightful dreams; he sighs, looks dull, and loves solitude. These are the forcrunners, or rather the first symptoms of that dreadful disease, occasioned by the bite of a mad dog. But as we do not propose to treat fully of the disease itself, but to point out the method of preventing it, we shall not take up time in showing its progress from the first invasion to its commonly fatal end.

The common notion, that this poifon may lie in the body for many years, and afterwards prove fatal, is both hurtful and ridiculous. It must render persons bit, very unhappy, and can have no good effects. If the person takes proper medicines for forty days after the time of his being bit, and feels no symptoms of the disease,

there is reason to believe him out of danger.

The medicines recommended for preventing the effects of the bite of a mad dog, are chiefly fuch as promote the different fecre-

tions, and antispasmodics.

Dr. Mead recommends a preventative medicine, which he fays he never knew fail, though in the space of thirty years he had used it a thousand times. It is as follows:

"Take ash-coloured ground liver-wort, cleaned, dried, and powdered, half an ounce; of black pepper pewdered, a quarter of an ounce. Mix these well together, and divide the powder into sour doies; one of which must be taken every morning fasting, for sour mornings successively, in half an English pint of cows milk warm.

"After these four doses are taken, the patient must go into the cold bath, or a cold spring or river, every morning fasting, for a month; he must be dipped all over, but not stay in (with his head above water) longer than half a minute, if the water be very cold. After this he must go in three times a-week for a fortnight longer.

"The person must be bled before he begins to use the medicine *."
We shall next mention the samous East-India specific, as it is called. This medicine is composed of cinnabar and musk. It is esteem-

ed a great antispasmodie; and, by many, extolled as an infallible remedy for preventing the effects of the bite of a mad dog.

"Take native and factitious cinnabar, of each twenty-four grains, musk sixteen grains. Let these be made into a sine powder, and

taken in a glass of arrack or brandy."

This fingle dose is faid to secure the person for thirty days, at the end of which it must be repeated; but if he has any symptoms of the disease, it must be repeated in three hours.

* Though we give this prescription on the credit of Dr. Mead, yet we would not advise any person, who has reason to believe that he has been bit by a dog which was really mad, to trust to it alone. Mead was an able physician, but he seems to have been no great physician, and was sometimes the dupe of his own credulity.

The following is likewise reckoned a good antispasmodic medicine: "Take of Virginian snake-root in powder, half a drachm, gum asafætida twelve grains, gum camphire seven grains; make these into a bolus with a little syrup of sastron."

Camphire may also be given in the following manner:

"Take purified nitre, half an ounce, Virginian fnake-root in powder, two drachms, camphire, one drachm; rub them together

in a mortar, and divide the whole into ten dofes."

Mercury is likewife recommended as of great efficacy, both in the prevention and cure of this kind of madness. When used as a preventative, it will be sufficient to rub daily a drachm of the ointment into the parts about the wound.

Vinegar is likewise of considerable service, and should be taken

freely, either in the patient's food or drink.

These are the principal medicines recommended for preventing the effects of the bite of a mad dog. We would not advise people to trust to any one of them; but from a proper combination of their different powers, there is the greatest reason to hope for success.

The great error in the use of these medicines lies, in not taking them for a sufficient length of time. They are used more like charms, than medicines intended to produce any change in the body. To this, and not to the insufficiency of the medicines, we must impute their

frequent want of fuccess.

Dr. Mead fays, that the virtue of his medicine confifts in promoting urine. But how a poifon should be expelled by urine, with only three or four doses of any medicine, however powerful, it is not easy to conceive. More time is certainly necessary, even though the medicine were more powerful than that which the Doctor prescribes.

The East-India specific is still more exceptionable on this ac-

count.

As these and most other medicines, taken singly, have frequently been found to fail, we shall recommend the following course:

If a person be bit in a slessly part, where there is no hazard of hurting any large blood-vessel, the parts adjacent to the wound may be immediately cut away*. But if this be not done soon after the bite has been received, it will be better to omit it.

The wound may be washed with falt and water, or a pickle made of vinegar and falt, and afterwards dressed twice a-day with yellow

basilicon, mixed with the red precipitate of mercury.

The patient should begin to use either Dr. Mead's medicine, or some of the others mentioned above. If he takes Mead's medicine, he may use it as the Doctor directs for sour days successively. Let him then emit it for two or three days, and again repeat the same number of doses as before.

During this course, he must rub into the parts about the wound

⁵ Cau tie has been recommended to be applied to the part, but this build never be employed when the kinde can be used, for it is hable to fendrate the intention by not destroying the whole of the wounded part. (I. C.)

daily, one drachm of the mercurial ointment. This may be done

for ten or twelve days at least.

When this course is over, he may take a purge or two, and wait a few days till the effect of the mercury be gone off. He must then begin to use the cold bath, into which he may go every morning for five or six weeks. If he should feel cold and chilly for a long time after coming out of the cold bath, it will be better to use a tepid one, or to have the water a little warmed.

In the mean time, we would advise him not to leave off all internal medicines, but to take either one of the boluses of snake-root, asafætida, and camphire; or one of the powders of nitre, camphire, and snake-root, twice a-day. These may be used during the whole

time he is bathing.

During the use of the mercurial ointment, the patient must keep

within doors, and take nothing cold.

A proper regi ven must be observed throughout the whole course. The patient should abstain from slesh, and all salted and high-sea-foned provisions. He must avoid strong liquors, and live mostly upon a light and rather spare diet. His mind should be kept as easy and cheerful as possible, and all excessive heat and violent passions avoided with the utmost care.

I have never feen this course of medicine, with proper regimen, sail to prevent the hydrophobia, and cannot help again observing, that the want of success must generally be owing either to the application of improper medicines, or not using proper ones for a suf-

ficient length of time.

Mankind are extremely fond of every thing that promifes a fudden or miraculous curc. By trusting to these, they often lose their lives, when a regular course of medicine would have rendered them absolutely safe. This holds remarkably in the present case. Numbers of people, for example, believe if they or their cattle be once dipped in the sca, it is sufficient; as if the salt water were a charm against the effects of the bite. This, and such like whims, have proved fatal to many.

It is a common notion, if a person be bit by a dog which is not mad, that, if he should go mad afterwards, the person would be affected with the disorder at the same time; but this notion is too ridiculous to deserve a serious consideration. It is a good rule, however, to avoid dogs as much as possible, as the disease is often upon them for some time before its violent symptoms appear. The hydrophobia has been occasioned by the bite of a dog which showed no other symptoms of the disease but listlessiness and a sullen disposition.

Though we do not mean to treat fully of the cure of the hydrophobia, yet we are far from reckoning it incurable. The notion that this difease could not be cured, has been productive of horrid confequences. It was usual either to abandon the unhappy persons, as soon as they were soized with the disease, to their fate, to bleed them to death, or to sufficient them between matrasses or seather beds, &c.

This conduct certainly deferved the feverest punishment! We hope, for the honour of human nature, it will never again be heard of.

I have never had an opportunity of treating this disease, and therefore can say nothing of it from my own experience; but Dr. Tissot says, it may be cured in the following manner:

1. The patient must be bled to a considerable quantity; and this may be repeated twice, thrice, or even a fourth time, if circum-

stances require it.

2. The patient should be put, if possible, into a warm bath; and this should be used twice a-day.

3. He should every day receive two, or even three emollicatelysters.

4. The wound, and the parts adjoining to it, should be rubbed with the mercurial ointment twice a-day.

5. The whole limb which contains the wound should be rubbed

with oil, and be wrapped up in an oily flannel.

6. Every three hours a dose of Cob's powder should be taken in a cup of the infusion of lime-tree and elder-slowers. This powder is made, by rubbing together in a mortar, to a very sine powder, of native and factitious cinnabar, each twenty-four grains; of must,

fixteen grains*.

- 7. The following bolus is to be given every night, and to be repeated in the morning, if the patient is not easy, washing it down with the infusion mentioned above: Take one drachm of Virginian snake-root in powder; of camphire and asascetida, ten grains each; of opium, one grain; and, with a sufficient quantity of conserve, or rob of elder, make a bolus.
- 8. If there be a great naufea at the stomach, with a bitterness in the mouth, thirty-five or forty grains of ipccacuanha, in powder, may be taken for a vomit.

9. The patient's food, if he takes any, must be light; as panado, soups made of farinaceous or mealy vegetables, &c.

10. If the patient should long continue weak, and subject to terrors, he may take half a drachm of the Peruvian bark thrice a-day.

The next poisonous animal which we shall mention is the VIPER. The grease of this animal rubbed into the wound is said to cure the bite. Though that is all the viper-catchers generally do when bit, we should not think it sufficient for the bite of an enraged viper. It would surely be more safe to have the wound well sucked, and af-

- * The Ormskirk medicine, as it is called, feems to me to consist chiefly of cinnabar. Though it is faid to be infallible, as a preventative; yet I would not advise any one to trust to it alone. Indeed, it is ordered to be taken in a manner which gives it mere the appearance of a charman of a medicine. Surely, if a medicine is to produce any change in the body, it must be taken for some considerable time, and in sufficient quantity.
- † The practice of facking out poisons is very ancient; and indeed nothing can be more rational. Where the bite cannot be cut out, this is the most likely way for extracting the poison. There can be no danger in performing this office, as the poison does no harm, unless it be

terwards rubbed with warm fallad-oil. A poultice of bread and milk, foftened with fallad-oil, should likewise be applied to the wound; and the patient ought to drink freely of vinegar-whey, or water-gruel with vinegar in it, to make him sweat. Vinegar is one of the best medicines which can be used in any kind of poison, and ought to be taken very liberally. If the patient be sick, he may take a vomit. This course will be sufficient to cure the bite of any of the

with regard to poifonous infects, as the bce, the wafp, the hornet, &c. their stings are feldom attended with danger, unless when a person happens to be stung by a great number of them at the same time; in which case some, for this purpose, apply honey, others lay pounded parsley to the part. A mixture of vinegar and Venice treacle is likewise recommended; but I have always sound rubbing the part with warm sallad-oil succeed very well. Indeed, when the stings are so numerous as to endanger the patient's life, which is sometimes the case, he must not only have oily poultices applied to the part, but should likewise be bled, and take some cooling medicines, as nitre, or cream of tartar, and should drink plentifully of diluting liquors.

It is the happiness of this island to have very few poisonous animals, and those which we have are by no means of the most virulent kind. Nine-tenths of the effects attributed to poison or venom in this country, are really other diseases, and proceed from quite dif-

ferent causes.

We cannot, however, make the fame observation with regard to poisonous vegetables. These abound every where, and prove often tatal to the ignorant and unwary. This, indeed, is chiefly owing to carelessiness. Children ought early to be cautioned against eating any kind of fruit, roots, or berries, which they do not know, and all poisonous plants to which they can have access, ought, as far as possible, to be destroyed. This would not be so difficult a task as some people imagine.

CHAPTER XLIX.

Of the Venereal Discase.

T is unfortunate for the unhappy persons who contract this disease, that it lies under a fort of disgrace. This renders disguise necessary, and makes the patient either conceal his disorder altoge-

taken into the body by a wound. The person who sucks the wound ought however to wash his mouth frequently with solid, which will secure him from even the least inconveniency. The Psylli in Africa, and the Macu in Italy, were famed for curing the bites of poisonous animals by sucking the wound; and we are told that the Indians in North-America practice the same at this day.

V 2

ther, or apply to those who promise a sudden and secret cure; but who in fact only remove the symptoms for a time, while they fix the disease deeper in the habit. By this means, a slight insection, which might have been easily removed, is often converted into an obstinate

and fometimes incurable malady.

Another unfavourable circumstance attending this disease is, that it assumes a variety of different shapes, and may with more propriety be called an assemblage of diseases than a single one. No two diseases can require a more different method of treatment than this does in its different stages. Hence, the folly and danger of trusting to any particular nostrum for the cure of it. Such nostrums are however generally administered in the same manner to all who apply for them, without the least regard to the state of the disease, the constitution of the patient, the degree of infection, and a thousand other circumstances of the utmost importance.

The venereal difease may be communicated to the innocent as well as the guilty. Infants, nurses, midwives, and married women whose husbands lead diffolute lives, are often affected with it, and frequently lose their lives by not being aware of their danger in due time. The condition of such persons will certainly plead our excuse, if any excuse be necessary, for endeavouring to point out the symp-

toms and cure of this too common difeafe.

To enumerate all its different fymptoms, and to trace the different minutely through its various stages, would require a much larger space than falls to this part of my subject. I therefore confine my observations chiefly to circumstances of importance, omitting such as are trifling, or which occur but seldom.

The Virulent Gonorrhaa

CHANGE TO SERVICE

IS an involuntary discharge of infectious matter from the parts of generation in either fex. It generally makes its appearance within eight or ten days after the infection has been received: sometimes in two or three days, and at other times not for sour or five weeks. Previous to the discharge, the patient feels an itching, with a small degree of pain in the genitals. Afterwards a thin glary matter begins to distil from the urinary passage, which stains the linen, and occasions a small degree of titillation, particularly in the time of making water; this arises at length to a degree of heat and pain, which are chiefly perceived about the extremity of the urinary passage, where a slight degree of redness and inflammation likewise begin to appear.

As the diforder advances, the pain, heat of urine, and running increase, while fresh symptoms daily ensure. In men, the erections become painful and involuntary, and are more frequent and lasting

than when natural. This fymptom is most troublesome when the patient is warm in bed. The pain which was at first only perceived towards the extremity, now begins to reach all up the urinary passage, and is most intense just after the patient has done making water. The running gradually grows yellow, and at length puts on

the appearance of matter.

When the diforder has arrived at its height, all the fymptoms are more intense; the heat of urine is so great, that the patient dreads the making water; and, though he feels a constant inclination this way, yet it is rendered with the greatest difficulty, and often only by drops: the involuntary erections now become extremely painful and frequent; there is also a pain, heat, and sense of fulness about the feat, and the running is plentiful and sharp, of a-brown, greenish, and sometimes of a bloody colour.

By a proper treatment, the violence of the fymptoms gradually abate; the heat of urine goes off; the involuntary and painful erections, and the heat and pain about the feat, become easier; the running also gradually decreases, grows whiter and thicker, till at last

it entirely disappears.

By attending to these symptoms, the gonorrhoea may be generally distinguished from any other disease. There are however some sew disorders for which it may be mistaken, as an ulcer in the kidnies or bladder, the sluor albus, or whites in women, &c. But in the former of these, the matter comes away only with the urine, or when the sphincter of the bladder is open; whereas, in a gonorrhoea, the discharge is constant. The latter must be known chiesly from its essects, as pain, communicating the infection, &c.

REGIMEN.—When a person suspects that he has caught the venereal infection, he ought most strictly to observe a cooling regimen, to avoid every thing of a heating nature, as wines, spirituous liquors, rich sauces, spiced, salted, high-seasoned and smokedried provisions, aromatic and stimulating vegetables, as onions, garlic, shallot, nutmeg, mustard, cinnamon, mace, ginger, and such like. His food ought chiefly to consist of mild vegetables, milk, broths, light puddings, panado, gruels, &c. His drink may be barley-water, milk and water, decoctions of marsh-mallows and liquorice, linseed tea, or clear whey. Of these, he ought to drink plentifully. Violent exercise of all kinds, especially riding on horseback, and venereal pleasures, are to be avoided. The patient must beware of cold, and when the instammation is violent, he ought to keep his bed.

MEDICINE.—A virulent gonorrhoea cannot always be cured fpeedily and effectually at the fame time. The patient ought not to expect, nor the physician to promife it. It will often continue for two or three weeks, and sometimes for five or fix, even where the treatment has been very proper.

Sometimes a flight infection may be carried off in a few days, by hathing the parts in warm milk and water, and injecting frequent-

ly up the urethra a little fweet oil or linfeed-ten about the warmth of new milk. Should these not succeed in carrying off the insection,

they will at least have a tendency to lessen its virulence.

To effect a cure, however, aftringent injections will generally be found necessary. These may be various ways prepared, but I think those made with the white vitriol are both most safe and efficacious. They can be made stronger or weaker as circumstances may require; but it is best to begin with the more gentle, and increase their power if necessary. I generally order a drachm of white vitriol to be dissolved in eight or nine ounces of common or rose-water, and an ordinary syringe full of it to be thrown up three or four times a-day. If this quantity does not perform a cure, it may be repeated, and the dose increased*.

Whether injections be used or not, cooling purges are always proper in the gonorrhoea. They ought not however to be of the strong or drastic kind. Whatever raises a violent commotion in the body increases the danger, and tends to drive the disease deeper.into the habit. Procuring two or three stools every second or third day for the first fortnight, and the same number every fourth or fifth day for the second, will generally be sufficient to remove the inflammatory symptoms, to diminish the running, and to change the colour and consistence of the matter, which gradually becomes more white and ropy as the virulence abates.

* Although it is now very common to cure the gonorrhoea by aftringent injections, there are still many practitioners who do not approve this mode of practice. I can, from much experience, affert, that it is both the most easy and essications method of cure; any bad consequences arising from it must be owing to the ignorance or misconduct of the practitioner himself, and not to the remedy. Many, for example, use strong preparations of lead, all of which are dangerous when applied to the internal surfaces of the body; others use escharotics, which instance and injure the parts. I have known a gonorrhoea actually cured by an injection made of green-tea, and would always recommend gentle methods where they will succeed.

† If the patient can swallow a solution of salts and manna, he may take fix drachms, or, if his constitution requires it, an onnce of the stormer, with half an ounce of the latter. These may be dissolved in an English pint of boiling water, whey, or thin water-gruel, and taken early in the morning.

If an infusion of senna and tamarinds be more agreeable, two drachms of the former, and an ounce of the latter, may be infused all night in an English pint of boiling water. The infusion may be strained next morning, and half an ounce of Glanber's salts dissolved in it. A tea-cupful of

this infusion may be taken every half hour till it operates.

Should the patient prefer an electuary, the following will be found to answer very well. Take of the lenitive electuary four onnees, cream of tartart two ounces, jalap in powder two drachms, rhubarbone drachm, and as much of the fyrup of pale roses as will serve to make up the whole into a soft electuary. Two or three tea-spoonfuls of this may be taken over-night, and about the same quantity next morning, every day that the patient chooses to take a purge.

The doses of the above medicines may be increased or diminished ac-

When the inflammatory fymptoms run high, bleeding is always necessary at the beginning. This operation, as in other topical inflammations, must be repeated according to the strength and constitution of the patient, and the vehemence and urgency of the symptoms.

Medicines which promote the fecretion of urine, are proper in this stage of the disorder. For this purpose, two ounces of pounded arabic may be mixed with half an ounce of cream tartar, and divided into twenty-four doses, one of which may be taken every morning and evening in a cup of the patient's drink. I have generally found this answer extremely well, both as to the divretic, and for keeping the body gently open.

When the pain and inflammation are feated high towards the neck of the bladder, it will be proper frequently to throw up an emollient clyster, which, besides the benefit of procuring stools,

will ferve as a fomentation to the inflamed parts.

Soft poultices, when they can conveniently be applied to the parts, are of great fervice. They may be made of the flour of linfeed, or of wheat bread and milk, foftened with fresh butter or sweet oil. When poultices cannot be conveniently used, cloths wrung out of warm water, or bladders filled with warm milk and water, may be applied. I have often known the most excruciating pains, during the inflammatory state of the gonorrheea, relieved by one or other of these applications.

Few things tend more to keep off inflammation in the fpermatic vessels, than a proper truss for the scrotum. It ought to be so contrived as to support the testicles, and should be worn from the first

appearance of the difease till it has ceased some weeks.

The above treatment will fometimes remove the gonorrhæa fo quickly, that the person will be in doubt whether he really laboured under that disease. This, however, is too savourable a turn to

be often expected, and ought never to be adopted.

When the above treatment has removed the heat of urine, and foreness of the genital parts; when the quantity of running is confiderably lessend, without any pain or swelling in the groin or testicle supervening; when the patient is free from involuntary erections; and lastly, when the running becomes pale, whitish, thick, void of ill smell, and tenacious or ropy; when all or most of these symptoms appear, the gonorrhæa is arrived at its last stage, and we may gradually proceed to treat it as a gleet with astringent medicines.

cording as the patient finds it necessary. We have ordered the salts to be dissolved in a large quantity of water, because it renders their operation more mild.

Of Gleets.

A GONORRHŒA frequently repeated, or improperly treated, often ends in a gleet, which may either proceed from relaxation, or from some remains of the disease. It is of the greatest importance in the cure, to know from which cause the gleet proceeds. When the discharge proves very obstinate, and receives little or no check, from astringent medincines, there is ground to suspect that it is owing to the latter; but if the drain is inconstant, and is chiefly observable when the patient is stimulated by lascivious ideas, or upon straining to go to stool, we may reasonably conclude that it is chiefly owing to the former.

In the cure of a gleet, proceeding from relaxation, the principal defign is to brace, and reftore a proper degree of tension to the debilitated and relaxed vessels. For this purpose, besides the medicines recommended in the gonorrhoea, the patient may have recourse to stronger and powerful astringents, as the Peruvian bark*, allum, vitriol, galls, tincture of gum kino, &c. The injections may be rendered more astringent by the addition of a few grains of allum, or increasing the quantity of vitriol as far as the parts are able

to bear it.

The last remedy which we shall mention in this case is the cold bath, than which, there is not perhaps a more powerful bracer in the whole compass of medicine. It ought never to be omitted in this species of gleet, unless there be something in the constitution of the patient which renders the use of it upsafe. The chief objections to the use of the cold bath are, a full habit, and an unsound state of the viscera. The danger from the former may always be lessened, if not removed, by purging and bleeding; but the latter is an infurmountable obstacle, as the pressure of the water, and the sudden contraction of the external veffels, by throwing the blood with too much force upon the internal parts, are apt to occasion ruptures of the vessels, or a flux of humours upon the difeafed organs. But where no objection of this kind prevails, the patient ought to plunge over head in water every morning fasting, for three or four weeks together. He should not stay long in the water, and should have his skin dried as foon as he comes out.

The regimen proper in this case is the same as in the last stage of the genorrheea: the diet must be drying and astringent, and the drink, Spa, Pyrmont, or Bristol waters, with which a little claret er red wine may sometimes be mixed. Any person may now afford

* The Peruvian bark may be combined with other aftringents, and

prepared in the following manner:

Take of Perusian bark broifed, fix drachms, of fresh galls bruifed, two drachms; boil trem in a pound and an half of water to a pound; to the strained squor add three onness of the simple tincture of the bark. A small tea-cupful of the saw betaken three times a-day, adding to each sup-sisteen or two drops or the acid clixir of vitriol.

to drink these waters, as they can be every where prepared at almost no expence, by a mixture of common chalk and oil of vitriol.

When the gleet does not in the smallest degree yield to these medicines, there is reason to suspect that it proceeds from ulcers*. In this case, recourse must be had to mercury, and such medicines as tend to correct any predominant acrimony with which the juices may be affected, as the decoction of China, safaparilla, saffafras, or the like.

Mr. Fordyce fays, he has feen many obstinate gleets of two, three, or four years standing, effectually cured by a mercurial inunction, when almost every other medicine has been tried in vain. Dr. Chapman seems to be of the same opinion; but says, he has always found the mercury succeed best in this case when joined with terebinthinate and other agglutinating medicines. For which reason, he recommends pills made of calomel and Venice turpentine; and desires that their use may be accompanied with a decoction of guaia-

cum or farfaparilla.

For the cure of ulcers in the urinary passage, suppurating candles or bougies are prepared various ways, and are generally to be bought ready made. It is needless to spend time in enumerating the different ingredients of which they are composed, or teaching the manner of preparing them. Before a bougie be introduced into the urethra, it should be smeared all over with sweet oil, to prevent it from stimulating too suddenly; it may be suffered to continue in from one to seven or eight hours, according as the patient can bear it. Obstinate ulcers are not only often healed, but tumours and excrescences in the urinary passages taken away, and an obstruction of urine removed by means of bougies.

Of the Swelled Testicle.

THE fwelled testicle may proceed from infection lately contracted, and may happen both in the first and second stages of a gonorrhoea; particularly when the running is unseasonably checked, by

- * This conjecture should be well-founded, as the same effect may be produced from different causes, such as a stricture in the urethra or simple relaxation of the excreting vessels of that canal; in both of these cases, mercury would be improper, particularly in the former, which can only be removed by a diligent use of bougies. (1. C.)
- † Take Venice turpentine, boiled to a sufficient degree of hardness, half an ounce, calomel, half a drachm. Let these be mixed and formed into fixty pills, of which five or fix may be taken night and morning. If, during the use of these pills, the mouth should grow fore, or the breath become offentive, they must be discontinued till these symptoms disappear.

cold, hard drinking, strong drastic purges, violent exercise, the too

early use of astringent medicines, or the like.

In the inflanmatory stage, bleeding is necessary, which must be repeated according to the urgency of the symptoms. The sood must be light, and the drink diluting. High-seasoned food, slesh, wines, and every thing of a heating nature, are to be avoided. Fomentations are of singular service. Poultices of bread and milk, softened with fresh butter or oil, are very proper, and ought constantly to be applied when the patient is in bed; when he is up, the testicle should be kept warm, and supported by a bag or trus, which may easily be contrived in such a manner as to prevent the weight of the testicle from having any effect.

If it should be found impracticable to clear the testicle by the cooling regimen now pointed out, and extended according to circumstances, it will be necessary to lead the patient through such a complete antivenereal course, as shall ensure him against any suture uneasiness. For this purpose, besides rubbing the mercurial ointment on the part, if free from pain, or on the thighs, as directed in the gonorrhea, the patient must be consined to bed, if necessary, for five or six weeks, suspending the testicle all the while with a bag or truss, and plying him inwardly with strong decoctions of sarsa-

parilla.

When these means do not succeed, and there is reason to suspect a scrophulous or cancerous habit, either of which may support a schirrhous induration, after the venercal poison is corrected, the parts should be somented daily with a decoction of hemlock, the bruised leaves of which may likewise be added to the poultice, and the extract at the same time taken inwardly. This practice is strongly recommended by Doctor Stork in schirrous and cancerous cases; and Mr. Fordyce affures us, that by this method he has cured diseased testicles of two or three years standing, even when ulcerated, and when the schirrous had begun to be affected with pricking and lancing pains.

Buboes

ARE hard tumours feated in the groin, occasioned by the venereal poison lodged in this part. They are of two kinds; viz. such as proceed from a recent infection, and such as accompany a confirmed lues.

The extrast of hemlock may be made into pills, and taken in the

manner directed under the article Cancer.

[•] I have been accustomed for some time past to apply leaches to inflamed testicles, which practice has always been followed with the most happy effects.

The cure of recent buboes, that is, fuch as appear foon after impure coition, may be first attempted by dispersion, and, if that should not succeed, by suppuration. To promote the dispersion of a bubo, the same regimen must be observed as was directed in the first stage of a gonorrhea. The patient must likewise be bled, and take some cooling purges, as the decoction of tamarinds and senna, Glauber's salts, and the like*. If, by this course, the swelling and other inflammatory symptoms abate, we may safely proceed to the use of mercury, which must be continued till the venereal virus is quite subdued+.

But, if the bubo should, from the beginning, be attended with great heat, pain, and pulsation, it will be proper to promote its suppuration. For this purpose, the patient may be allowed to use his ordinary diet, and to take now and then a glass of wine. Emollient cataplasms, consisting of bread and milk, or slax-seed flour, softened with oil or fresh butter, may be applied to the part; and, where the tumour advances slowly, white lily-roots boiled, or sliced onions raw, and a sufficient quantity of yellow basilicon, may be added to

the poultice.

When the tumour is ripe, which may be known by its conical figure, the foftness of the skin, and a sluctuation of matter plainly to be felt under the singer, it may be opened by either caustic or a

lancet‡, and afterwards dreffed with digestive ointment.

Sometimes buboes can neither be differfed nor brought to a suppuration, but remain hard, indolent tumours. In this case, the indurated glands must be confumed by caustic. If they should become schirrous, they must be dissolved by the application of hemlock, both externally and internally, as directed in the schirrous testicle.

Chancres

ARE fuperficial, callous, eating ulcers; which may happen either with or without a gonorrheea. They are commonly feated about the glands, and make their appearance in the following manner: First a little red pimple arises, which soon becomes pointed

.* During the continuance of this practice, one drachm of the mercurial ointment should be rubbed every night, into the inside of the thigh, below the bubo. (I. C.)

† For the dispersion of the bubo, a number of leeches applied to the part affected, will be found equally efficacious as in the inflamed tes-

ficie

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^{- ‡} The latter is more advantageous than the former; if the bubo be fimply punctured, and the matter discharged gradually, so as to imitate its spontaneous rupture. This mode mould always be prefered, when the patient cannot wait for it to break of itself.

at top, and is filled with a whitish matter inclining to yellow. This pimple is hot, and itches generally before it breaks; afterwards it degenerates into an obstinate ulcer, the bottom of which is usually covered with a viscid mucus, and whose edges gradually become hard and callous. Sometimes the first appearance resembles a simple excorration of the cuticle; which, if the cause be veneral, soon becomes a true chancer.

A chancre is sometimes a primary affection, but it is much oftner symptomatic, and is the mark of a consistence sues. Primary chancres discover themselves soon after impure coition, and are generally seated in parts covered with a thin cuticle, as the lips, the

nipples of women, the glans penis of men, &c*.

When a chance appears foon after impure coition, its treatment is nearly similar to that of the virulent gonorrhoea. The patient must observe the cooling regimen, lose a little blood, and take some gentle doses of salts and manna. The parts affected ought frequently to be bathed, or rather soaked, in warm milk and water, and if the inflammation be great, an emollient poultice or cataplasm may be applied to them. This course will, in most cases, be sufficient to abate the inflammation, and prepare the patient for the use of merciant

Symptomatic chances are commonly accompanied with ulcers in the throat, nocturnal pains, scurily cruptions about the roots of the hair, and other symptoms of a confirmed lues. Though they may be seated in any of the parts mentioned above, they commonly appear upon the private parts, or the inside of the thigh. They are also less painful, but frequently much larger and harder than primary chances. As their cure must depend upon that of the pox, of which they are only a symptom, we shall take no further notice of

them till we come to treat of a confirmed luest.

Thus we have related most of the symptoms which accompany or succeed a virulent gonorrhoea, and have also given a short view of their proper treatment; several others sometimes attend this disease, as a strangury or obstruction of urine, a phymosis, paraphymosis, &c.

A strangury may be occasioned either by a spasmodic constriction, or an inflammation of the urethra and parts about the neck of

When venereal ulcers are feated in the lips, the infection may be communicated by kiffing. I have feen very oblinate venereal ulcers in the lips, which I had all the reason in the world to believe were communicated in this manner.

Nurses ought to be ware of suckling infected children, or having their breasts drawn by persons tainted with the venereal disease. This caution is peculiarly necessary for nurses who reside in the neighbourhood

of great towns.

† I have found it answer extremely well to sprinkle chancres twice aday with calonnel. This will often perform a cure without any othe application whatever. If the chancres are upon the glans, they may be washed with milk and water, a little warm, and afterwards the calonnel may be applied as above.

the bladder. In the former case, the patient begins to void his urine with tolerable ease; but, as soon as it touches the galled or inflamed urethra, a sudden constriction takes place, and the urine is voided by spurts, and sometimes by drops only. When the strangury is owing to an inflammation about the neck of the bladder, there is a constant heat and uneasiness of the part, a perpetual desire to make water, while the patient can only render a few drops, and a trouble-some tenesmus, or constant inclination to go to stool.

When the strangury is owing to spasin, such medicines as tend to dilute and blunt the salts of the urine will be proper. For this purpose, besides the common diluting liquors, soft and cooling emulsions, sweetened with the syrup of poppies, may be used. Should these not have the desired effect, bleeding, and emollient

fomentations, will be necessary.

When the complaint is evidently owing to an inflammation about the neck of the bladder, bleeding must be more liberally performed, and repeated according to the urgency of the fymptoms. After bleeding, if the strangury still continues, fost clysters, with a proper quantity of laudanum in them, may be administered, and emollient fomentations applied to the region of the bladder. At the fame time, the patient may take every four hours a tea-cupful of barley-water, to an English pint of which six ounces of the syrup of marsh-mallows, four ounces of the oil of fweet almonds, and half an ounce of nitre, may be added. If these remedies should not relieve the complaint, and a total suppression of urine should come on, bleeding must be repeated, and the patient set in a warm bath up to the middle. It will be proper in this case to discontinue the divretics, and to draw off the water with a catheter; but as the patient is feldom able to bear its being introduced, we rather recommend the use of mild bougies. These often lubricate the passage, and greatly facilitate the discharge of urine. When they begin to stimulate or give any uneafiness, they may be withdrawn.

The phymosis is such a constriction of the prepuce over the glans, as hinders it from being drawn backwards; the paraphymesis, on the contrary, is such a constriction of the prepuce behind the glans,

as hinders it from being brought forward.

The treatment of these symptoms is so nearly the same with that of the virulent gonorrhæa, that we have no occasion to enlarge upon it. In general, bleeding, purging, poultices, and emollient so-

mentations are sufficient.

Sometimes in spite of all endeavours to the contrary, the inflammation goes on, and symptoms of a beginning mortification appear. When this is the case, the prepuce must be scarified with a lancet, and, if necessary, divided, in order to prevent a strangulation, and set the imprisoned glans at liberty. We shall not describe this operation, as it ought always to be done by a surgeon. When a mortification has actually taken place, it will be necessary, besides performing the above operations, to something the parts frequently with

cloths wrung out of a strong decoction of camomile-flowers and bark, and to give the patient a drachm of the bark in powder every two or three hours.

With regard to the *priapism*, chordee, and other distortions of the *penis*, their treatment is no way different from that of the gonorrhœa. When they prove very troublesome, the patient may take a few drops of laudanum at night, especially after the operation of a purgative through the day.

Of a Confirmed Lues.

WE have hitherto treated of those affections, in which the venereal poison is supposed to be confined chiefly to the particular part by which it was received, and shall next take a view of the lues in in its confirmed state; that is, when the poison is actually received into the blood, and circulating with it through every part of the body, mixes with the several secretions, and renders the whole habit tainted.

The fymptoms of a confirmed lues are, buboes in the groin, pains of the head and joints, which are peculiarly troublesome in the night, or when the patient is warm in bed; scabs and scurfs in various parts of the body, especially on the head, of a yellowish colour, refembling a honey-comb; corroding ulcers in various parts of the body, which generally begin about the throat, from whence they creep gradually, by the palate, towards the cartilage of the nofe, which they deftroy; excrefcences or exostoses arise in the middle of the bones, and their fpongy ends become brittle, and break upon the least accident; at other times they are soft, and bend like wax; the conglobate glands become hard and callous, and form, in the neck, armpits, groin, and mefentery, hard moveable tumours, like the king's evil; tumours of different kinds are likewise formed in the lymphatic veffels, tendons, ligaments, and nerves, as the gummata, ganglia, nodes, tophs, &c.; the eyes are affected with itching, pain, redness, and sometimes with total blindness, and the ears with a finging noise, pain and deafness, whilst their internal substance is exulcerated and rendered carious; at length all the animal, vital, and natural functions are depraved; the face becomes pale and livid; the body emaciated and unfit for motion, and the patient falls into an atrophy or wasting confumption.

Women have fymptoms peculiar to the fex; as cancers of the breaft; a suppression or overflowing of the menses; the whites; hysteric affections; an inflammation, abscess, schirrus, gangrene, cancer, or ulcer of the womb; they are generally either barren or subject to abortion; or, if they bring children into the world, they have an universal erysipelas, are half rotten, and covered with ul-

cers.

Such is the catalogue of fymptoms attending this difease in its confirmed state. They are seldom all to be met with in the same person, or at the same time; so many of them, however, are generally present as are sufficient to alarm the patient; and if he has reason to suspect the insection is lurking in his body, he ought immediately to set about the expulsion of it, otherwise the most tragical consequences will ensue.

The only certain remedy hitherto known in Europe, for the cure of this disease, is mercury, which may be used in a great variety of forms, with nearly the same success. Some time ago it was reckoned impossible to cure a confirmed lues without a salivation. This method is now generally laid aside, and mercury is sound to be as essectionation, or rather more so, in expelling the venereal poison, when administered in such a manner as not to run off by the sali-

vary glands.

Though many are of opinion, that the mercurial ointment is as efficacious as any other preparation of that mineral; yet experience has taught me to think otherwife. I have often feen the most obstinate venereal cases, where great quantities of mercurial ointment had been used in vain, yield to the faline preparations of mercury. Nor am I singular in this opinion. My ingenious friend, Mr. Clare, an eminent surgeon of this city, assures me, that for some time past, he has employed, in venereal cases, a faline preparation of mercury with most happy success. This preparation, rubbed with a sufficient quantity of any mild powder, he applies, in small portions, to the tongue, where, with a gentle degree of friction, it is immediately absorbed, and produces its sull effect upon the system, without doing the least injury to the stomach or bowels; a matter of the greatest importance in the application of this most active and powerful remedy*.

It is impossible to ascertain either the exact quantity of medicines that must be taken, or the time they ought to be continued, in order to perform a cure. These vary according to the constitution of the patient, the season of the year, the degree of insection, the time it has lodged in the body, &c. It is difficult to determine a priori, what quantity of mercury will be necessary to cure this distemper completely; yet it may be judged of a posseriori, from the abatement and ceasing of the symptoms. Astruc says, that commonly

^{*} The best method of introducing mercury into the system to remedy this disease, is by mercurial ointment, as it is less liable when used in this manner to pass off by the bowels. One or two drachms of this cointment, should be rubbed on the insides of each thigh every night until the gums are affected; when the ointment cannot be conveniently used, one of the mercurial pills (See Appendix.) must be taken every night and morning, combined with a quarter of a grain of opium, to retain the mercury in the bowels. This practice must be continued until the symptoms disappear, and for ten or sisteen days afterwards. I. C.

no ounces of the strong mercurial cointment is fulfi-

ci in a servicion thring or four ounces necessary.

the second of the second take notice and the second to the

forming the venereal difease; but none have upon experience answered the high encomiums bestowed upon them. Though no one of these is to be depended upon alone, yet, when joined with mercury, some of them are sound to be very beneficial in promoting a cure. One of the best is sarfaparilla, which may be prepared and

taken according to the directions in the appendix1.

The mezereon-root is found to be a powerful affiftant to the fublimate, or any other mercurial. It may be used along with the sar-saparilla, as directed in the appendix, or by itself. Those who choose the mezereon by itself, may boil an ounce of the fresh bark, taken from the root, in twelve English pints of water to eight, adding towards the end an ounce of liquorice. The dose of this is the same

as of the decoction of farfaparilla.

We have been told that the natives of America cure the venereal disease, in every stage, by a decoction of the root of a plant called the Lobelia. It is used either fresh or dried; but we have no certain accounts with regard to the proportion. Sometimes they mix other roots with it, as those of the ranunculus, the ceanothus, &c.; but whether these are designed to disguise or affist it, is doubtful. The patient takes a large draught of the decoction early in the morning, and continues to use it for his ordinary drink through the days.

* This preparation of mercury is thought to be more efficacious than any other, in venereal affections of the kin. I. C.

† The sublimate may be given in distilled water, or any other liquor that the patient chooses. I commonly order tengrains to be dissolved in an ounce of the spirit of wine, for the conveniency of carriage, and let the patient take twenty or thirty drops of it night and morning in half a glass of brandy or other spirits. Mr. Debraw, an ingenious chemist of this place, prepares a salt of mercury much more mild and gentle in its operation than the sublimate, though equally efficacious.

I See Appendix, Decott. of Sarsaparilla.

Though we are still very much in the dark with regard to the method of curing this disease among the natives of America, yet it is generally affirmed, that they do cure it with speed, tasety, and success, and that without the least knowledge of mercury. Hence it becomes an object of considerable importance to discover their method of cure,

Many other roots and woods might be mentioned which have been extolled for curing the venereal difease, as the china-root, the roots of soap-wort, burdock, &c. as also the wood of guaiacum and sassaffas; but, as none of these possess virtues superior to those already mentioned, we shall pass them ever, and shall conclude our observations on this disease, with a few general remarks concerning the proper management of the patient, and the nature of the insection.

General Observations.

THE condition of the patient ought always to be confidered previous to his entering upon a course of mercury in any form. It would be rash and dangerous to administer mercury to a person labouring under any violent acute disease, as severs, pleuristy, peripneumony, or the like. It would be dangerous in some chronic cases; as a slow heetic sever, or the last stage of a consumption. Sometimes, however, these diseases proceed from a confirmed lues; in which case, it will be necessary to give mercury. In chronic diseases of a less dangerous nature, as the asthma, the gravel, and such like, mercury, if necessary, may be safely administered. If the patient's strength has been greatly exhausted by sickness, labour, abstinence, or any other cause, the use of mercury must be postponed, till, by time, rest, and a nourishing diet, it can be sufficiently restored.

Mercury ought not to be administered to women during the menstrual flux, or when the period is near at hand. Neither should it be given in the last stage of pregnancy. If the woman be not near the time of her delivery, and circumstances render it necessary, mercury may be given, but in smaller doses, and at greater intervals than usual: with these precautions, both the mother and child may be cured at the same time; if not, the disorder will at least be kept from growing worse, till the woman be brought to bed, and sufficiently recovered, when a more effectual method may be pursued, which, if she suckles her child, will in all probability be sufficient for the cure of both.

Mercury should be administered to infants with the greatest cau-

This might furely be done by making trials of the various plants which are found in those parts, and particularly of such as the varives are known to make use of. All people in a rude state take their medicines chiefly from the vegetable kingdom, and are often possessed of valuable secrets with regard to the virtues of the plants, of which more enlightened nations are ignorant. Indeed, we make no doubt but some plants of our own growth, were proper pains taken to discover them, would be found as efficucious in curing the venereal disease as those of America. It must however be remembered, that what will cure the venereal disease in one country, will not always have equal success in another.

tion. Their tender condition unfits them for supporting a falivation, and makes it necessary to give even the mildest preparations of mercury to them with a sparing hand. A similar conduct is recommended in the treatment of old persons, who labour under a confirmed lues. The infirmities of age must render people less able to undergo the fatigues of a salivation; but this, as formerly observed, is never necessary; besides, we have generally found, that mercury had much less effect upon very old persons than on those who were younger.

Hysteric and hypochondriae persons, and such as are subject to an habitual diarrhea* or dysentery, or to frequent and violent attacks of the epilepsy, or who are afflicted with the scrophula, or the seurcy, ought to be cautious in the use of mercury. Where any one of these disorders prevails, it ought, if possible, to be cured, or at least palliated, before the patient enters upon a course of mercury. When this cannot be done, the mercury must be administered

in smaller doses, and at longer intervals than usual.

The most proper seasons for entering upon a course of mercury are, the spring and autumn, when the air is of a moderate warmth. If the circumstances of the case will not admit of delay, we must not defer the cure on account of the season, but must administer the mercury; taking care at the same time to keep the patient's chamber warmer or cooler, according as the season of the year requires.

The next thing to be confidered is the preparation to be observed before we proceed to a course of mercury. Some lay great stress upon this circumstance, observing, that by previously relaxing the vessels, and correcting any disorder which may happen to prevail in the blood, not only the mercury will be disposed to act more kindly, but many other inconveniencies will be prevented.

We have already recommended bleeding and gentle purges, previous to the administration of mercury, and shall only now add, that these are always to be repeated according to the age, strength, constitution, and other circumstances of the patient. Afterwards, if it can be conveniently done, the patient ought to bathe once or twice a-day, for a few days, in lukewarm water. His diet in the mean time must be light, moist, and cooling. Wine, and all heating liquors, also violent bodily exercise, and all great exertions of the mind, are carefully to be avoided.

A proper regimen is to be observed by such as are under a course of mercury. Inattention to this not only endangers the patient's life, but often also disappoints him of a cure. A much smaller quantity of mercury will cure a person who lives moderate, keeps warm, and avoids all excess, than one who cannot endure to put the smallest restraint upon his appetites: indeed it but rarely happens that such

are thoroughly cured.

^{*} In lues venerea, when the patient is troubled with diarrhea, mercury should be introduced into the system by friction of mercurial ointment on the inside of the thighs.

1. C.

There is hardly any thing of more importance, either for preventing or removing venereal infection than cleanliness. By an early attention to this, the infection might often be prevented from entering the body; and, where it has already taken place, its effects may be greatly mitigated. The moment any person has reason to suspect that he has received the infection, he ought to wash the parts with water and spirits, sweet oil, or milk and water; a small quantity of the last may likew. Be injected up the urethra, if it can be conveniently done. Whether this disease at first took its rife from dirtiness is hard to say; but wherever that prevails, the infection is found in its greatest degree of virulence, which gives ground to believe that a strict attention to cleanliness would go far towards extirpating it*.

When the disease has been neglected, or improperly treated, it often becomes a disorder of the habit. In this case, the cure must be attempted by restoratives, as a milk diet, the decoction of sarsaparilla, and such like, to which mercury may be occasionally added. It is a common practice in North Britain to send such patients to drink goat-whey. This is a very proper plan, provided the infection has been totally eradicated before-hand; but when that is not the case, and the patient trusts to the whey for finishing his cure, he will often be disappointed. I have frequently known the disease return with all its virulence after a course of goat-whey, even when that course had been thought quite sufficient for completing the

cure.

One of the most unfortunate circumstances attending patients in this disease, is the necessity they are often laid under of being soon

I have not only often seen a recent infection carried off in a few days by means of cleanlines, viz. bathing, fomentations, injections, &c. but have likewise found it of the greatest advantage in the more advanced stages of the disease. Of this I had lately a very remarkable infance, in a man whose penis was almost wholly consumed by venereal ulcers: the matter had been allowed to continue on the fores, without any care having been taken to clean them, till, notwithstanding the use of mercury and other medicines, it had produced the effects above mentioned. I ordered warm milk and water to be injected three or four times a day into all the sinuous ulcers, in order to wash out the matter; after which they were stuffed with dry lint to absorb the fresh matter as it was generated. The patient at the same time took every day half a grain of the corrosive sublimate of mercury, dissolved in an ounce of brandy, and drank an English quart of the decostion of sarsparilla. By this treatment, in about six weeks, he was perfectly cured; and, what was very remarkable, a part of the penis was actually regenerated.

Doctor Gilchrist has given an account of a species of the lues venerea which prevails in the west of Scotland, to which the natives give the name of Sibbias or Sivvins. He observes, that the spreading of this disease is chiefly owing to a neglect of cleanliness, and see as to think, that by due attention to that virtue it might be extirpated. The treatment of this disease is similar to that of a consirmed lues or pox. The yaws, a disease now very common both in America and the West-India island may be curred in the same manner.

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well. This induces them to take medicine too fast, and to leave it off too soon. A few grains more of medicine, or a few days longer confinement, would often be fussicient to perfect the cure; whereas, by neglect of these, a small degree of virulence is still left in the humours, which gradually vitiates, and at length contaminates the whole mass. To avoid this, we would advise the patient never to leave off taking medicine immediately upon the disappearing of the symptoms, but continue it so some time after, gradually lessening the quantity, till there is sufficient ground to believe that the disease is entirely eradicated.

It is not only difficult, but impossible, to ascertain the exact degree of virulence that may attend the disease; for which reason, it will always be much faser to use medicine too long, than to leave it off too soon. A modern practitioner of some note for the venereal disease, always orders his patient to perform a quarantine of at least forty days, during which time he takes forty bottles of, I suppose, a strong deecction of sarsaparilla, or some other anti-venereal simple. Whoever takes this method, and adds a sufficient quantity of corrosive sublimate, or some other active preparation of mercury to the deecction, will seldom fail to cure a confirmed lues.

It is unfortunate for the eure of this difease, that not one in ten of those who contract it, are able or willing to submit to a proper plan of regimen. The patient is willing to take medicine; but he must follow his business, and, to prevent suspicions, must eat and drink like the rest of the family. This is the true source of ninetenths of all the mischief arising from the venereal disease. I never knew the cure attended with any great dishculty or danger where the patient strictly followed the physician's advice: but a volume would not be sufficient to point out the dreadful consequences which proceed from an opposite conduct. Schirrous testicles, ulcerous fore throats, madness, consumptions, carious bones, and a rotten progeny, are a few of the bleilings derived from this source.

There is a species of false reasoning, with regard to this disease, which proves fatal to many. A perfen of a found constitution contracts a flight degree of the diforder. He gets well without taking any great care, or using much medicine, and hence concludes that this will always be the eafe. The next time the difeafe occurs, though ten times more virulent, he purfues the fame course, and his constitution is ruined. The different degrees of virulence in the fmall-pox are not greater than in this difease, though, as Sydenham observes, in some eases the most skilful physicians cannot cure, and in others, the most ignorant old woman cannot kill the patient in that diforder. A good constitution is always in favour of the patient, yet too great stress may be laid upon it. It does not appear from obfervation, that the most robust constitution is able to evercome the virulence of the venereal contagion, after it has got into the habit. In this case, a proper course of medicine is always indispensably neceffary.

Although it is impossible, on account of the different degrees of virulence, &c. to lay down fixed and certain rules for the cure of this discase, yet the following general plan will always be found safe, and often successful, viz. to bleed and administer gentle purges with diaretics during the instanmatory state, and as soon as the symptoms of inflammation are abated, to administer mercury, in any form agreeable to the patient. The same medicine, affisted by the decoction of sarsaparilla, and a proper regimen, will not only secure the constitution against a further progress of a consirmed pox, but will generally perform a complete cure.

CHAPTER L.

Discases of Women.

OMEN, in all civilized nations, have the management of domestic affairs, and it is very proper they should, as Nature has made them less fit for the more active and laborious employments. This indulgence, however, is generally carried too far; and females, instead of being benefited by it, are greatly injured, from the want of exercise and free air. To be satisfied of this, one need only compare the fresh and ruddy looks of a milk-maid with the pale complexion of those semales whose whole time is spent within doors. Nature has made an evident distinction between the male and semale, with regard to bodily strength and vigour, yet she certainly never meant, either that the one should be always without, or the other always within doors.

The confinement of females, befides hurting their figure and complexion, relaxes their folids, weakens their minds, and diforders all the functions of the body. Hence proceed obstructions, indigestion, flatulence, abortions, and the whole train of nervous diforders. These not only unfit women for being mothers and nurses, but often render them whimsical and ridiculous. A found mind depends so much upon a healthy body, that where the latter is

wanting, the former is rarely to be found.

Women who are chiefly employed without doors, in the different branches of hufbandry, gardening, and the like, are almost as hardy as their hufbands, and their children are likewise strong and healthy. But as the bad effects of confinement and inactivity upon both sexes have been already shewn, we shall proceed to point out those circumstances in the structure and design of semales, which subject them to peculiar diseases; the chief of which are, their monthly evacuations, pregnancy, and child-bearing. These indeed cannot properly be called diseases, but from the delicacy of the sex, and their being often improperly managed in such situations, they become the source of numerous calamities.

Of the Menstrual Discharge.

FEMALES generally begin to menstruate about the age of fifteen, and leave it off about fifty*, which renders these two periods the most critical of their lives. About the first appearance of this discharge, the constitution undergoes a very considerable change, generally indeed for the better, though sometimes for the worle. The greatest care is now necessary, as the future health and happiness of the semale depends in a great measure upon her conduct at

this period+.

If a girl about this time of life be confined to the house, kept constantly sitting, and neither allowed to romp about, nor employed in any active business, which gives exercise to the whole body, she becomes weak, relaxed, and puny; her blood not being duly prepared, she looks pale and wan; her health, spirits, and vigour decline, and she sinks into a valetudinarian for life. Such is the sate of numbers of those unhappy semales, who, either from too much indulgence, or their own narrow circumstances, are, at this critical period, denied the benefit of exercise and free air.

A mazy disposition proves likewise very hurtful to girls at this period. One seldom meets with complaints from obstructions amongst the more active and industrious part of the sex; whereas, the indolent are seldom free from them. These are in a manner eaten up by the chlorosus, or green-sickness, and other diseases of this nature. We recommend it to all who wish to escape these calamities, to avoid indolence and inactivity, as their greatest enemies, and to be as

much abroad in the open air as possible.

Another thing which proves very hurtful to girls about this period of life, is unwholesome food. Fond of all manner of trash, they often indulge in it to excess. Hence ensue indigestions, want of appetite, and a numerous train of evils. If the sluids be not duly prepared, it is utterly impossible that the secretions should go properly on. Accordingly, such girls as lead an indolent life, and eat great quantities of trash, are not only subject to obstructions of the menses, but likewise to glandular obstructions; as the scrophula or king's evil, &c.

^{*} In America, generally about forty-five. I. C.

[†] It is the duty of mothers, and these who are intrusted with the education of girls, to instruct them early in the conduct and management of themselves at this critical period of their lives. False modely, inattention, and ignorance of what is beneficial or hurtful at this time, are the sources of many diseases and missfortunes in life, which a few fensible lessons from an experienced matron might have prevented. Nor is care, less necessary in the subsequent returns of this discharge. Taking improper food, violent affections of the mind, or catching coul at this period, is often sufficient to ruin the health, or to render the semale ever after incapable of procreation.

A dull disposition is also very hurtful to girls at this period. It is rare to fee a sprightly girl who does not enjoy good health, while the grave, moping, melancholy creature, proves the very prey of vapours and hysterics. Youth is the season for mirth and cheerfulness. Let it therefore be indulged. It is an absolute duty. To lay in a stock of health in time of youth, is as necessary a piece of prudence as to make provision against the decays of old age. While wife Nature prompts the happy youth to join in sprightly amusements, let not the severe dictates of hoary age forbid the usual impulse, nor damp, with serious gloom, the season destined to mirth

and innocent festivity.

Another thing very hurtful to females about this period of life is strait clothes. They are fond of a fine shape, and foolishly imagine this can be acquired by lacing themselves tight. Hence, by Iqueezing the stomach and bowels, they hurt the digestion, and occasion many incurable maladies. This error is not indeed so common as it has been; but, as fashions change, it may come about again: many females, to this day, feel the direful effects of that wretched custom which prevailed some years ago, of squeezing every girl into as fmall a fize in the middle as possible. Human invention could not possibly have devised a practice more destructive to health.

After a female has arrived at that period of life when the menfes usually begin to flow, and they do not appear, but, on the contrary, her health and spirits begin to decline, we would advise, inflead of shutting the poor girl up in the house, and dosing her with steel, asafætida, and other nauseous drugs, to place her in a situation where she can enjoy the benefit of free air and agreeable company. There let her eat wholesome food, take sufficient exercise, and amuse herself in the most agreeable manner; and we have little reason to fear, but Nature, thus assisted, will do her proper work.

She feldom fails, unless where the fault is on our side.

This discharge in the beginning is seldom so instantaneous as to furprise females unawares. It is generally preceded by symptoms which foretel its approach; as a fense of heat, weight, and dull pain in the loins; diftenfion and hardness of the breafts; headach; loss of appetite; lassitude; paleness of the countenance; and sometimes a flight degree of fever. When these symptoms appear about the age of which the menstrual flux usually begins, every thing should be carefully avoided which may obstruct that necessary and falutary evacuation; and all means used to promote it; as sitting frequently over the steams of warm water, drinking warm diluting liquors, &c.

After the menses have once begun to flow, the greatest care should be taken to avoid every thing that may tend to obstruct them. Females ought to be exceeding cautious of what they eat or drink at the time they are out of order. Every thing that is cold, or apt to four on the stomach, ought to be avoided; as fruit, butter-milk, and fuch like. Fish, and all kinds of food that are hard of digestion, are also to be avoided. As it is impossible to mention every thing than may difagree with individuals at this time, we would recommend it to every female to be very attentive to what difagrees with

herself, and carefully to avoid it.

Cold is extremely hurtful at this particular period. More of the fex date their diforders from colds, caught while they are out of order, than from all other causes. This ought furely to put them upon their guard, and to make them very circumspect in their conduct at fuch times. A degree of cold that will not in the least hurt them at another time, will at this period be fufficient entirely to ruin their health and constitution.

The greatest attention ought likewise to be paid to the mind, which should be kept as easy and cheerful as possible. Every part of the animal economy is influenced by the passions, but none more fo than this. Anger, fear, grief, and other affections of the mind, often occasion obstructions of the menstrual flux, which prove abfolutely incurable.

I som whatever cause this flux is obstructed, except in the state of pregnancy, proper means should be used to restore it. For this purpose, we recommend sufficient exercise, in a dry, open, and rather cool air; wholesome diet, and, if the body be weak and languid, generous liquors; also cheerful company, and all manner of amuse-

ments. If these fail, recourse must be had to medicine.

When obstructions proceed from a weak relaxed state of the folids, fuch medicines as tend to promote digeftion, to brace the folids and affift the body in preparing good blood, ought to be used. The principal of these are iron and the Peruvian bark, with other bitter and astringent medicines. Filings of iron may be infused in wine or ale, two or three ounces to an English quart, and after it has stood for two or three weeks, it may be filtered, and about half a wine glass of it taken twice a-day: or prepared steel may be taken in the dose of half a drachm, mixed with a little honey or treacle, three or four times a-day. The bark and other bitters may either be taken in fubstance or infusion, as is most agreeable to the patient.

When obstructions proceed from a viscid state of the blood; or from women of a gross or full habit, evacuations, and such medicines as attenuate the humours, are necessary. The patient, in this case, ought to be bled, to bathe her feet frequently in warm water, to take now and then a cooling purge, and to live upon a spare, thin diet. Her drink should be whey, water, or small-beer, and she ought to take 2 sheient exercise. A tea-spoonful of the tincture of black hellebore may be taken twice a-day in a cup of warm water.

When obliructions proceed from affections of the mind, as grief, fear, anger, &c. every method should be used to amuse and divert the patient. And that the may the more readily forget the cause of her affliction, the ought, if possible, to be removed from the place where it happened. A change of place, by prefenting the mind with a variety of new objects, has often a very happy influence in relieving it from the deepest distress. A foothing, kind, and affable behaviour to females in this fituation, is also of the last importance.

An obstruction of the menses is often the effect of other maladies. When this is the case, instead of giving medicines to force that discharge, which might be dangerous, we ought, by all means, to endeayour to restore the patient's health and strength. When that is effected, the other will return of course.

But the menstrual slux may be too great as well as too small. When this happens, the patient becomes weak, the colour pale, the appetite and digestion are bad, and cedematous swellings of the feet, dropfics, and confumptions often enfue. This frequently happens to women about the age of forty-five or fifty, and is very difficult to cure. It may proceed from a fedentary life; a full diet, confifting chiefly of falted, high-feafoned, or acrid food; the use of spirituous liquors; excessive fatigue; relaxation; a dissolved state of the blood; violent passions of the mind, &c.

The treatment of this disease must be varied according to its cause. When it is occasioned by any error in the patient's regimen, an opposite course to that which induced the disorder must be purfued, and fuch medicines taken as have a tendency to restrain the flux, and counteract the morbid affections of the fystem from whence

it proceeds.

To restrain the slux, the patient should be kept quiet and easy both in body and mind. If it be very violent, she ought to lie in bed with her head low; to live upon a cool and flender diet, as veal or chicken broths with bread; and to drink decoctions of nettle-roots, or the greater comfrey. If there be not fufficient to stop the flux, stronger astringents may be used, as Japan carth, allum, clixir of

vitriol, the Peruvian bark, &c*.

The uterine flux may offend in quality as well as in quantity. What is usually called the *fluor albus*, or whites, is a very common disease, and proves extremely hurtful to delicate women. This discharge, however, is not always white, but fometimes pale, yellow, green, or of a blackish colour; formctimes it is sharp and corrosive, sometimes foul and foetid, &c. It is attended with a pale complexion, pain in the back, lofs of appetite, fwelling of the feet, and other figns of debility. It generally proceeds from a relaxed state of the body, arising from indolence, the excessive use of tea, cossee, or other weak and watery diet.

7 Two directions of allum and one of Japan earth, may be pounded together, and divided into eight or nine dofes, one of which may be

taken three times a-day.

Persons, whose stomachs cannot bear the allum, may take two tablespoonfuls of the tineture of roses three or four times a-day, to each dose of which, ten drops of laudanum may be added.

If these should fail, half a drachm of the Peruvian bark, in powder, with ten drops of the elixir of vitriol, may be taken, in a glass of red wine, four times a-day.

To remove this disease, the patient must take as much exercise as she can bear without satigue. Her food should be solid and nourishing, but of easy digestion; and her drink rather generous, as red port or claret, mixed with Pyrmont, Bristol, or lime-water. Tea and cosses are to be avoided. I have often known strong broths have an exceeding good effect; and sometimes a milk diet alone will perform a cure. The patient ought not to lie too long a-bed. When medicine is necessary, we know none preferable to the bark, which, in this case, ought always to be taken in substance. In warm weather, the cold bath will be of considerable service.

The period of life at which 'the menses cease to flow, is likewise very critical to the sex. The stoppage of any customary evacuation, however small, is sufficient to disorder the whole frame, and often to destroy life itself. Hence so many women either fall into chronic disorders, or die about this time. Such of them, however, as survive it, without contracting any chronic disease, often become more healthy and hardy than they were before, and enjoy

strength and vigour to a very great age.

If the menses cease all of a sudden, in women of a full habit, they ought to abate somewhat of their usual quantity of food, especially of the more nourishing kind, as sless, eggs, &c. They ought likewise to take sufficient exercise, and to keep the body open. This may be done by taking, once or twice a week, Glauber's salts or castor-oil; and if the pulse be full and hard, ten or twelve ounces

of blood should be taken from the arm.

Women of a gross habit, at this period of life, have often ulcerous fores break out about their ancles, or in other parts of the body. Such ulcers ought to be confidered as critical, and either fuffered to continue open, or have artificial drains fublituted in their stead. Women who will have such fores dried up, are often, foon after, carried off by acute diseases, or fall into those of a chronic nature.

Pregnancy

IS not a disease, yet that state is often attended with a variety of complaints which merit attention, and requires the assistance of medicine. Some women indeed, are more healthy during their pregnancy than at any other time; but this is by no means the general case: most of them breed in sorrow, and are frequently indisposed during the whole time of pregnancy. Few stated diseases, however, happen during that period; and hardly any, except abortion, that can be called dangerous. We shall, therefore, pay particular attention to it, as it proves generally stated to the child, and sometimes so to the mother.

Pregnant women are often afflicted with the heart burn. The method of treating this complaint has been already pointed out. They are, likewife, in the more early periods of pregnancy, often harraffed with fickness and vomiting, especially in the morning. The method of relieving these complaints has also been shewn. The head-ach and tooth-ach are very troublesome symptoms of pregnancy. The former may generally be removed by keeping the body gently open, by the use of prunes, sigs, roasted apples, and such-like. When the pain is very violent, bleeding may be necessary. For the treatment of the latter, we must refer to that article. Several other complaints incident to pregnant women might be mentioned, as a cough and difficulty of breathing, suppression and incontinency of urine, &c.; but all these have been taken notice of before.

Every pregnant woman is more or lefs in danger of abortion. This should be guarded against with the greatest care, as it not only weakens the constitution, but renders the woman liable to the same misfortune afterwards*. Abortion may happen at any period of pregnancy, but it is most common in the second or third month. Sometimes it happens in the fourth or fifth. If within the first month, it is usually called a false conception; if after the seventh month, the child may often be kept alive by proper care.

The common causes of abortion are, the death of the child; weakness or relaxation of the mother; great evacuations; violent exercise; raising great weights; reaching too high; jumping, or stepping from an eminence; vomiting; coughing; convulsion-fits; strokes on the belly; falls; fevers; disagreeable smells; excess of blood; indolence; high living; or the contrary; violent passions or affections of the mind, as fear, grief, &c.

The figns of approaching abortion are, pain in the loins, or about the bottom of the belly; a dull heavy pain in the infide of the thighs; a flight degree of coldness, or shivering; sickness, palpitation of the heart; the breasts become flat and soft; the belly falls; and there is a discharge of blood or watery humours from the

womb.

To prevent abortion, women of a weak or relaxed habit should use solid food, avoiding great quantities of tea, and other weak and watery liquors; rise early and go soon to bed; shun damp houses; take frequent exercise in the open air, but avoid satigue; and never go abroad in damp soggy weather, if they can shun it.

* Every woman who procures an abortion does it at the hazard of her life; yet there are not a few who run this risk, merely to prevent the trouble of bearing and bringing up children. It is furely a most unnatural crime, and cannot, even in the most abandoned, be viewed without horror; but in the decent matron, it is still more unpardonable. Those wretches who daily advertise their affistance to women in this business, deferve, in my opinion, the most severe of all human punishments.

Women of a full habit ought to use a spare diet, avoiding strong liquors, and every thing that may tend to heat the body, or increase the quantity of blood. Their diet should be of an opening nature, consisting principally of vegetable substances. Every woman with child ought to be kept cheerful and easy in her mind. Her appetites, even though deprayed, ought to be indulged as far

as prudence will permit.

When any figns of abortion appear, the woman ought to be laid in bed on a mattrafs, with her head low. She should be kept quiet, and her mind foothed and comforted. She ought not to be kept too hot, nor to take any thing of a heating nature. Her food should confist of broths, rice and milk, jellies, gruels made of oat-meal, and the like, all of which ought to be taken cold. If she be able to bear it, she should lose at least half a pound of blood from the arm. Her drink ought to be barley water sharpened with juice of lemon; or she may take half a drachm of powdered nitre, in a cup of water-gruel, every five or six hours. If seized with a violent looseness, she ought to drink the decoction of calcined hartshorn prepared. If she be affected with vomiting, let her take frequently two tablespoonfuls of the faline mixture. In general, opiates are of service; but they should always be given with caution.

Sanguine robust women who are liable to miscarry at a certain time of pregnancy, ought always to be bled a few days before that period arrives. By this means, and observing the regimen above

prescribed, they might often escape that misfortune.

Though we recommend due care for preventing abortion, we would not be understood as restraining pregnant women from their usual exercises. This would generally operate the quite contrary way. Want of exercise not only relaxes the body, but induces a plethora, or two great a sulness of the vessels, which are the two principal causes of abortion. There are, however, some women of so delicate a texture, that it is necessary for them to avoid almost every kind of exercise during the whole period of pregnancy.

Of Child-Birth.

MANY difeases proceed from the want of due care in child-bed; and the more hardy part of the sex are most apt to despise the necessary precautions in this state. This is peculiarly the case with young wives. They think, when the labour-pains are ended, the danger is over; but in truth, it may only then be said to be begun. Nature, if lest to herself, will seldom fail to expel the sexus; but proper care and management are certainly necessary for the recovery of the mother. No doubt mischief may be done by too much as well as by too little care. Hence semales who have the greatest

number of attendants in child-bed, generally recover worst*. But this is not peculiar to the state of child-bed. Excessive care always defeats its own intention, and is generally more dangerous than

none at allt.

During actual labour, nothing of a heating nature ought to be given. The woman may now and then take a little panado, and her drink ought to be toast and water, or thin groat-gruel. Spirits, wines, cordial-waters, and other things which are given with a view to strengthen the mother, and promote the birth, for the most part, tend only to increase the fever, inflame the womb, and retard the labour. Besides, they endanger the woman afterwards, as they often occasion violent and mortal hæmorrhages, or dispose her to eruptive and other fevers.

When the labour proves tedious and difficult, to prevent inflammations, it will be proper to bleed. An emollient clyfter ought likewife frequently to be administered; and the passage ought to be gently rubbed with a little soft pomatum or fresh butter. If nature seems to sink, and the woman is greatly exhausted with fatigue, a draught of generous wine, or some other cordial, may be given, but not otherwise. These directions are sufficient in natural labours; and in all preternatural cases, a skilful surgeon or man-

midwife, ought to be called as foon as possible.

After delivery, the woman ought to be kept as quiet and eafy as possible. Her food should be light and thin, as gruel, pannado, &c. and her drink weak and diluting. To this rule, there are many exceptions. I have known several women, whose spirits could not be supported in child-bed without solid food and generous li-

- * No more attendants should be admitted than are absolutely necessary; and it is to be wished that those would never converse about labours that have been accompanied with greater danger. Such conversation feldom fails to make the patient extremely unhappy, and consequently impedes the labour.

 (I. C.)
- † Though the management of women in child-bed has been practiced as an employment fince the earliest accounts of time; yet it is still in most countries on a very bad footing. Few women think of following this employment till they are reduced to the necessity of doing it for bread. Hence not one in a hundred of them have any education, or proper knowledge of their business. Most women in child-bed require to be managed with skill and attention, and they are often hurt by the superstritious prejudices of ignorant and officious midwives. The mischness done in this way is much greater than is generally imagined; most of which might be prevented by allowing no woman to practice midwisery but such as are properly qualified. Were due attention paid to this, it would be the means of saving many lives.
- ‡ We cannot help taking notice of that ridiculous custom which fill prevails in some parts of the country, of collecting a number of women together upon such occasions. These, instead of being useful serve only to crowd the house, and obstruct the incressray attendants. Besides, they hurt the patient with their noise; and often, by their natimely and impertinent advice, do much mischief.

quors; to fuch, a glass of wine and a bit of chicken must be allowed.

Sometimes an excessive hamorrhage or flooding happens after delivery. In this case, the patient should be laid with her head low, kept cool, and be in all respects treated as for an excessive flux of the menses. If the flooding proves violent, linen cloths, which have been wrung out of a mixture of equal parts of vinegar and water, or red wine, should be applied to the belly, the loins, and the thighs: these must be changed as they grow dry; and may be discontinued as soon as the flooding abates*.

If there be violent pains after delivery†, the patient ought to drink plentifully of warm diluting liquors, as groat-gruel, or tea with a little faffron in it; and to take fmall broths, with carraway feeds, or a bit of orange-peel in them; an ounce of the oil of fweet almonds may likewife be frequently taken in a cup of any of the above liquors; and if the patient be hot or feverifh, one of the following powders may be taken in a cup of her usual drink every

five or fix hourst.

An inflammation of the womb is a dangerous and not unfrequent difease after delivery. It is known by pains in the lower part of the belly, which are greatly increased upon touching; by the tension or tightness of the parts; great weakness; change of countenance; a constant sever, with a weak and hard pulse; a slight delirium or raving; sometimes incessant vomitting; a hiccup; a discharge of reddish, sectid, sharp water from the womb; an inclination to go frequently to stool; a heat, and sometimes total suppression of urine.

This must be treated like other inflammatory disorders, by blccding and plentiful dilution. The drink may be thin gruel or barley-water; in a cup of which half a drachm of nitre may be dissolved, and taken three or four times a-day. Clysters of warm milk and water must be frequently administered; and the belly should be somented by cloths wrung out of warm water, or by applying bladders filled with warm milk and water to it.

A suppression of the lechia, or usual discharges after delivery,

* In a violent flooding after delivery, I have feen very good effects from the following mixture: Take of penny-royal water, fimple cinnamon-water, and fyrrup of poppies, each two ounces, elixir of vitriol a drachm. Mix and take two table-spoonfuls every two hours, or oftner, if necessary.

† One grain or more of opium flould be administered. (I. C.)

† Take of crabs claws prepared, half an ounce, purified nitre, two drachins, fairron powdered, half a drachin; rub them together in a mortar, and divide the whole into eight or nine dofes.

When the patient is low-spirited, or troubled with hysterical complaints, she ought to take frequently twelve or sisteen drops of the tinc-

ture of asafætida in a cup of penny-royal tea.

and the milk-fever, must be treated nearly in the same manner as an inflammation of the womb. In all these cases, the safest course is plentiful dilution; gentle evacuations, and somentations of the parts assected. In the milk-fever, the breasts may be embrocated with a little warm linseed-oil, or the leaves of red cabbage may be applied to them. The child should be often put to the breast, or it should be drawn by some other person.

Nothing would tend more to prevent the milk-fever, than putting the child early to the breaft. The custom of not allowing children to suck for the first two or three days, is contrary to Nature and common sense, and is very hurtful both to the mother and

child.

Every mother who has milk in her breafts, ought either to fuckle her own child, or to have her breafts frequently drawn, at least for the first month. This would prevent many of the diseases which

prove fatal to women in child-bed.

When an inflammation happens in the breast, attended with redness, hardness, and other symptoms of suppuration, the safest application is a poultice of bread and milk, softened with oil or freshbutter. This may be renewed twice a-day, till the tumour be either discussed or brought to suppuration. The use of repellents, in this case, is very dangerous; they often occasion severs, and sometimes cancers; whereas a suppuration is seldom attended with any danger, and has often the most salutary effects.

When the nipples are fretted or chapt, they may be anointed with a mixture of oil and bees' wax, or a little powdered gum-arabic may be sprinkled on them. I have seen Hungary-water, applied to the nipples, have a very good effect. Should the complaint prove obstinate, a cooling purge may be given, which generally re-

moves it.

The miliary fever is a difease incident to women in child-bed. Hossiman observes, that this sever of child-bed women might generally be prevented, if they, during their pregnancy, were regular in their diet, used moderate exercise, took now and then a gentle laxative of manna, castor-oil, or cream of tartar; not forgetting to bleed in the first months, and avoid all sharp air. When the labour is coming on, it is not to be hastened with forcing medicines, which instante the blood and humours, or put them into unnatural commotions. Care should be taken, after the birth, that the natural exerctions proceed regularly; and if the pulse be quick, a little nitrous powder, or some other cooling medicines, should be given.

The most fatal disorder consequent upon delivery, is the puerperal, or child-bed fever. It generally makes its attack upon the second or third day after delivery. Sometimes indeed, it comes on sooner, and at other times, though rarely, it does not appear before the fifth

or fixth day.

It begins, like most other fevers, with a cold or shivering sit,

which is fucceeded by restlessness, pain of the head, great sickness at stomach, and bilious vomiting. The pulse is generally quick, the tongue dry, and there is a remarkable depression of spirits and loss of strength. A great pain is usually felt in the back, hips, and region of the womb; a sudden change in the quantity or quality of the lockia also takes place; and the patient is frequently troubled with a tenessnus, or constant inclination to go to stool. The urine, which is very high-coloured, is discharged in small quantity, and generally with pain. The belly sometimes swells to a considerable bulk, and becomes susceptible of pain from the slightest touch. When the sever has continued for a few days, the symptoms of instantantion usually subside, and the disease acquires a more putrid form. At this period, if not sooner, a bilious or putrid looseness, of an obstinate and dangerous nature, comes on, and accompanies the disease through all its future progress.

No difease requires to be treated with more skill and attention than this; consequently, the best assistance ought always to be obtained as soon as possible. In women of plethoric constitutions, bleeding will generally be proper at the beginning; it ought, however, to be used with caution, and not to be repeated, unless where the signs of inflammation rise high; in which case, it will also be

necessary to apply a blifter to the region of the womb.

During the rigour, or cold fit, proper means should be used to abate its violence, and shorten its duration. For this purpose, the patient may drink freely of warm diluting liquors, and, if low, may take now and then a cup of wine-whey; warm applications to the extremities, as heated bricks, bottles or bladders filled with warm

water, and fuch-like, may also be used with advantage.

Emollient clysters of milk and water, or of chicken water, ought to be frequently administered through the course of the disease.—These prove beneficial by promoting a discharge from the intestines, and also by acting as a kindly somentation to the womb and parts adjacent. Great care however is requisite in giving them, on account of the tenderness of the parts in the pelvis at this time.

To evacuate the offending bile from the stomach, a vomit is generally given. But as this is apt to increase the irritability of the stomach, already too great, it will be safer to omit it, and to give in its stead, a gentle laxative, which will both tend to cool the body,

and to procure a free discharge of the bile.

The medicine which I have always found to fucceed best in this disease, is the saline draught. This, if frequently repeated, will often put a stop to the vomiting, and, at the same time, lessen the violence of the sever. If it runs off by stool, or if the patient be restless, a sew drops of laudanum, or some syrup of poppies, may occasionally be added.

If the stools should prove so frequent as to weaken and exhaust the patient, a starch clyster, with thirty or forty drops of laudanum in it, may be administered as occasion shall require; and the drink may be rice-water, in every English pint of which half an ounce of gumarabic has been dissolved. Should these fail, recourse must be had to Columbo-root, or some other strong astringent.

Though in general the food ought to be light, and the drink diluting, yet when the disease has been long protracted, and the patient is greatly spent by evacuations, it will be necessary to sup-

port her with nourishing diet and generous cordials.

It was observed, that this sever, after continuing for some time, often acquires a putrid form. In this case, the bark must be given, either by itself, or joined with cordials, as circumstances may require. As the bark in substance will be apt to purge, it may be given in decoction or insussion, mixed with the tincture of roses, or other gentle astringents; or, a scruple of the extract of bark with half an ounce of spirituous cinnamon-water, two ounces of common water, and ten drops of laudanum, may be made into a draught, and given every second, third, or fourth hour, as shall be found necessary.

When the stomach will not bear any kind of nourishment, the patient may be supported for some time, by clysters of beef-tea, or

chicken-water.

To avoid this fever, every woman in child-bed ought to be kept perfectly eafy; her food should be light and simple, and her bed-chamber cool, and properly ventilated. Nothing is more hurtful than being kept too warm. She ought not to have her body bound too tight, nor rise too soon from bed after delivery; catching cold is also to be avoided; and a proper attention should be paid to cleanliness.

To prevent the milk-fever, the breafts ought to be frequently drawn; and if they are filled previous to the onfet of a fever, they should, upon its first appearance, be drawn to prevent the milk from becoming acrid, and its being absorbed in this state. Costiveness is to be avoided. This will be best effected by the use of mild clysters and a laxative diet.

We shall conclude on child-bed women, by recommending it to them, above all things, to beware of cold. Poor women, whose circumstances oblige them to quit their bed too soon, often contract diseases from cold, of which they never recover. It is a pity the poor are not better taken care of in this situation.

But the better fort of women run the greatest hazard from too much heat. They are generally kept in a fort of a bagnio for the first eight or ten days, and then dressed out to see company. The

danger of this conduct must be obvious to every one.

The fuperstitious and contemptible custom of obliging women to keep the house till they go to church, is a very common cause of carching cold. All churches are damp, and most of them cold; consequently they are the very worst places to which a woman can go to make her first visit, after having been confined in a warm room for a mouth.

Of Barrenness.

BARRENNESS may be very properly reckoned among the difeases of females, as few married women who have not children enjoy a good state of health. It may proceed from various causes, as high-living, grief, relaxation, &c. but it is chiefly owing to an ob-

struction or irregularity of the menstrual flux.

It is very certain that high living prevents fecundity. We feldom find a barren woman among the labouring poor, while nothing is more common among the rich and affluent. The inhabitants of every country are prolific in proportion to their poverty; and it would be an eafy matter to adduce many inflances of women, who, by being reduced to live entirely upon a milk and vegetable diet, have conceived and brought forth children, though they never had any before. Would the rich use the same fort of food and exercise as the better fort of peasants, they would feldom have cause to envy their poor vassals and dependants the blessing of a numerous and healthy offspring, while they pine in forrow for the want of even a single heir to their extensive domains.

Affluence begets indolence, which induces a general relaxation of the folids; a ftate highly unfavourable to procreation. To remove this, we would recommend the following courfe: First, sufficient exercise in the open air; secondly, a diet consisting chiefly of milk and vegetables*; thirdly, the use of aftringent medicines, as steel, allum, dragon's blood, elixir of vitriol, the Spaw or Tunbridge waters, Peruvian bark, &c.; and lastly, above all, the cold bath.

Barrenness is often the consequence of grief, sudden fear, anxiety, or any of the passions which tend to obstruct the menstrual flux. When barrenness is suspected to proceed from affections of the mind, the person ought to be kept as easy and cheerful as possible; all disagreeable objects are to be avoided, and every method taken to amuse and entertain the fancy.

^{*} Dr. Cheyne avers, that want of children is oftner the fault of the male than of the female, and strongly recommends a milk and vegetable diet to the former as well as the latter; adding, that his friend Dr. Taylor, whom he calls the Milk-doctor of Croydon, had brought sundry opulent families in his neighbourhood, who had continued some years after marriage without progeny, to have several sine children, by keeping both parents, for a considerable time, to a milk and vegetable diet.

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CHAPTER LI.

Diseases of Children.

AN comes into the world more helpless than any other animal, and stands much longer in need of the protection and care of his parents; but this care is not always bestowed upon him; and when it is, he often fuffers as much from improper management as he would have done from neglect. The officious care of parents, nurses, and midwives, becomes one of the most fruitful fources of the diforders of infants*.

It must be obvious to every attentive person, that the first diseases of infants arife chiefly from their bowels. Nor is this in the least to be wondered at, as they are in a manner poisoned with indigestible drugs and improper diet, as foon as they come into the world. Every thing that the stomach cannot digest may be considered as a poifon; and unless thrown up, or avoided by stool, it must occasion fickness, gripes, spasmodic affections of the bowels, or what the women call inward fits, and at last convulsions and death.

As these symptoms evidently arise from somewhat that irritates the intestines, doubtless the proper method of cure must be to expel it as foon as possible. The most safe and effectual method of doing this is by gentle vomits. Five or fix grains of the powder of ipecacuanha may be mixed in two table-spoonfuls of water, and fweetened with a little fugar. A tea-spoonful of this may be given

to the infant every quarter of an hour till it operates.

This medicine will not only cleanse the stomach, but will generally likewise open the body. Should this however not happen, and if the child be costive, some gentle purge will be necessary: for this purpose, some manna and pulp of cassia may be dissolved in boiling water, and given in fmall quantities till it operates; or, what will answer rather better, a few grains of magnefia alba may be mixed in any kind of food that is given to the child, and continued till it has the defired effect. If these medicines be properly administered, and the child's belly and limbs frequently rubbed with a warm hand before the fire, they will feldom fail to relieve those affec-

^{*} Of the officious and ill-judged care of midwives, we shall adduce only one inflance, viz. the common practice of torturing infants by squeezing their breasts, to draw off the milk, as they call it. Though a finall quantity of moisture is generally found in the breasts of infants, yet, as they are certainly not intended to give fuck, this ought never to be drawn off. I have feen this cruel operation bring on hardness, inflammation, and suppuration of the breatts; but never knew any ill consequences from its being omitted. When the breasts are hard, the only application that we would recommend, is a foft poultice, or a little of the diachylon plaister, spread thin upon a bit of soft leather, about the size of half a crown, and applied over each nipple. These may be suffered to continue till the hardness disappears.

tions of the stomach and bowels from which infants suffer to much.

These general directions include most of what can be done for relieving the internal disorders of infants. They will likewise go a considerable way in alleviating those which appear externally, as the rash, gum, &c. These, as was formerly observed, are principally owing to too hot a regimen, and consequently will be most commonly relieved by gentle evacuations. Indeed, evacuations of one kind or other constitute a principal part of the medicine of infants, and will seldom, if administered with prudence, in any of their diseases, fail to give relief.

Of the Meconium.

THE stomach and bowels of a new-born infant are filled with a blackish coloured matter of the consistence of syrup, commonly called the *meconium*. This is generally passed soon after the birth, by the mere effort of Nature; in which case it is not necessary to give the infant any kind of medicine. But if it should be retained, or not sufficiently carried off, a little manna or *magnesia alba* may be given, or, if these should not be at hand, a common spoonful of whey, sweetened with a little honey, or raw sugar will answer the purpose.

The most proper medicine for expelling the meconium is the mother's milk, which is always at first of a purgative quality. Were children allowed to suck as soon as they shew an inclination for the breast, they would feldom have occasion for medicines to discharge the meconium; but even where this is not allowed, they ought never to have daubs of syrup, oils, and other indigestible stuff, cram-

med down their throats.

The Aphtha or Thrush.

THE aphthæ are little whitish ulcers affecting the whole inside of the mouth, tongue, throat, and stomach of infants. Sometimes they reach through the whole intestinal canal; in which case, they are very dangerous, and often put an end to the infant's life.

If the aphthæ are of a pale colour, pellucid, few in number, foft, fuperficial, and fall easily off, they are not dangerous; but if opake, yellow, brown, black, thick, or running together, they ought to be dreaded.

It is generally thought that the aphthæ owe their origin to acid humours; but they are frequently owing to too hot a regimen both of the mother and child. It is a rare thing to find a child who is not dosed with wine, punch, cinnamon-waters, or some other hot and inflaming liquors, almost as soon as it is born. These will occasion inflammatory disorders even in adults; is it any wonder then that they should heat and inflame the tender bodies of infants?

The most proper medicines for the aphthæ are vomits, such as have been already recommended, and gentle laxatives. One drachm of magnesia alba may be divided into six doses, one of which may be given to the infant every four or sive hours till they operate. These powders may either be given in the child's food, or a little of the syrup of pale roses, and may be repeated as often as is found necessary to keep the body open. It is common in this case to administer calomel; but as that medicine sometimes occasions gripes,

it ought always to be given to infants with caution.

Many thing have been recommended for gargling the mouth and throat in this discase; but it is not easy to apply these in very young infants; we recommend it to the nurse to rub the child's mouth frequently with a little borax and honey; or with the following mixture: Take fine honey an ounce, borax a drachm, burnt allum half a drachm, rose-water two drachms; mix them together. A very proper application in this case, is a solution of ten or twelve grains of white vitriol in eight ounces of barley-water. These may be applied with the singer, or by means of a bit of soft rag tied to the end of a probe.



THE food of children being for themost part of an acescent nature, it readily turns sour upon the stomach, especially if the body be any way disordered. Hence most diseases of children are accompanied with evident signs of acidity, as green stools, gripes, &c. These appearances induce many to believe, that all the diseases of children are owing to an acid abounding in the stomach and bowels; but whoever considers the matter attentively, will find that these symptoms of acidity are oftener the essect than the cause of their diseases.

Nature evidently intended, that the food of children should be accessent; and unless the body be disordered, or the digestion hurr, from some other cause, we will venture to say, that the ascessent quality of their food is seldom injurious to them. Acidity, however, is often a symptom of disorders in children, and, as it is sometimes a troublesome one, we shall point out the method of relieving it.

When green stools, gripes, purgings, four smells, &c. shew that the bowels abound with an acid, the child should have a little small broth, with light white bread in it; and sufficient exercise to premote the digestion. It has been customary in this case to give the pearl-julep, chalk, crabs eyes, and other testaceous powders. These, by their absorbent quality, may correct the acidity; but they are apt to lodge in the bowels, and occasion costiveness, which may prove very hurtful to the infant. For this reason, they should never be given unless mixed with purgative medicines; as rhubarb, manna, or such like.

The best medicine which we know, in all cases of acidity, is the powder of magnesia alba. It purges, and at the same time corrects the acidity: by which means it not only removes the disease, but carries off its cause. It may be given in any kind of food, or in a mixture.

When an infant is troubled with gripes, it ought not at first to be dosed with brandy, spiceries, and other hot things, but should have its body opened with an emollient clyster, or the medicine mentioned above; and at the same time, a little brandy may be subbed on its belly with a warm hand before the fire. I have seldom seen this fail to ease the gripes of infants. It it should happen, however, not to succeed, a little brandy or other spirits may be mixed with thrice the quantity of warm water, and a tea-spoonful given frequently till the infant be easier. Sometimes a little pepper-mintwater will answer this purpose very well.

Galling and Excoriation.

THESE are very troublesome to children. They happen chiefly about the groin and wrinkles of the neck, under the arms, behind the ears, and in other parts that are moistened by the sweat or urine.

As these complaints are, in a great measure, owing to want of cleanliness, the most effectual means of preventing them are, to wash the parts frequently with cold water, to change the linen often, and, in a word, to keep the child in all respects thoroughly clean. When this is not sufficient, the excoriated parts may be sprinkled with absorbent or drying powders, such as powdered starch, burnt hartshorn, tutty, chalk, crabs' claws prepared, and the like. When the parts affected are very fore, and tend to a real ulceration, add a little sugar of lead to the powders; or anoint the place with camphorated ointment. If the parts be washed with spring-water, in which a little white vitriol has been dissolved, it will dry and heal them very powerfully. One of the best applications for this purpose, is to dissolve some fuller's earth in a sufficient quantity of hot water; and after it has stood till it is cold, to ruh it gently upon the galled parts once or twice a-day.

Stoppage of the Nofe.

THE nostrils of infants are often plugged up with a gross mucus, which prevents their breathing freely, and likewise renders it dif-

ficult for them to fuck or fwallow.

Some, in this case, order, after a suitable purge, two or three grains of white vitriol dissolved in half an ounce of marjoram-water, and siltered, to be applied now and then to the nostrils with a linen rag. Wedelius says, if two grains of white vitriol, and the same quantity of elaterium, be dissolved in half an ounce of marjoram-water, and applied to the nose, as above directed, that it brings away the mucus without sneezing.

In obstinate cases, these things may be tried; but I have never found any thing necessary, besides rubbing the nose at bed-time with a little sweet oil, or fresh butter. This resolves the filth, and

renders the breathing more free.

Of Vomiting.

FROM the delicate ftate of children, and the great fensibility of their organs, a vomiting or loofeness may be induced by any thing that irritates the nerves of the stomach or intestines. Hence, these disorders are much more common in childhood than in the more advanced periods of life. They are seldom however dangerous, and ought never to be considered as diseases, unless when they are violent, or continue so long as to exhaust the strength of the patient.

Vomiting may be excited by an over-quantity of food; by food that is of fuch a nature as to irritate the nerves of the stomach too much; or by the sensibility of the nerves being so much increased as to render them unable to bear the stimulus of even the mildest

element.

When vomiting is occasioned by too much food, it ought to be promoted, as the cure will depend upon cleansing the stomach. This may be done either by a few grains of ipecacuanha, or a few drops of antimonial wine. When it is owing to food of an acrid or irritating quality, the diet ought to be changed, and aliment of a

milder nature substituted in its stead.

When vomiting proceeds from an increased degree of sensibility, or too great an irritability of the nerves of the stomach, such medicines as have a tendency to brace and strengthen that organ, and abate its sensibility, must be used. The first of these intentions may be answered by a slight insusion of the Peruvian bark, with the addition of a little rhubarb and orange-peel; and the second

by the faline draughts, to which a few drops of liquid laudanum

may be occ.. sionally added.

In obstinate vomitings, the operation of internal medicines may be assisted by aromatic fomentations made with wine, applied warm to the pit of the stomach; or the use of the stomach-plaister, with the addition of a little theriaca.

Of a Looseness.

A LOOSENESS may generally be reckoned falutary when the ftools are four, flimy, green, or curdled. It is not the difcharge, but the production of fuch ftools, which ought to be remedied. Even where the purging is thin and watery, it ought not to be checked too fuddenly, as it often proves critical, efpecially when the child has caught cold, or an eruption on the skin has disappeared. Sometimes an evacuation of this kind succeeds a humid state of the atmosphere, in which case it may also prove of advantage, by earrying off a quantity of watery humours, which would otherwise tend to relax the habit.

As the principal intention of the cure of a loofeness is to evacuate the offending matter, it is customary to give the patient a gentle vomit of ipecacuanha, and afterwards to exhibit small and frequent doses of rhubarb; interposing absorbent medicines, to mitigate the arrimony of the humours. The best purge in this case, is magnessa alba. It is absorbent and laxative, and operates without ex-

citing gripes.

The antimonial wine, which acts both as an emetic and purge, is also an excellent medicine in this case. By being diluted with water, it may be proportioned to the weakest constitution; and, not being disagreeable to the palate, it may be repeated as often as occasion requires. Even one dose will frequently mitigate the discase, and paye the way for the use of absorbents. If the patient's strength will permit, the medicine ought to be repeated every six or eight hours, till the stools begin to assume a more natural appearance; afterwards a longer space may be allowed to intervene between the doses. When it is necessary to repeat the medicine frequently, the dose ought always to be a little increased, as its essence y is generally diminished by use.

Some upon the first appearance of a looseness, sly to absorbent medicines and astringents. If these be administered before the offending humours are discharged, though the discase may appear to be mitigated for a little time, it soon afterwards breaks forth with greater violence, and often proves statal. After proper evacuations, however, these medicines may be administered with considerable

advantage.

Should any gripings or reftlessness remain after the stomach and bowels have been cleansed, a tea-spoonful of the syrup of poppies may be given in a little simple cinnamon-water, three or four times a-day till these symptoms have ceased.

Of the Vomiting and Purging of Children.

THIS difease is nearly the same which occurs in grown people. It is produced by the like causes, and requires a similar method of cure.

It frequently appears in the month of June, but becomes more frequent in July, August and September, when the weather is very warm, or soon after there has been a sudden change to cool weather, attended with a north-east wind. The latter often takes place during the summer months in North-America.

In a fhort time after this change, and not unfrequently in the course of one night, a number of children are taken down with

this difeafe.

But the disease often occurs, independent of this change, when the weather is very warm, and it is generally brought on by overcharging the stomach with food, which, either from its quality, or quantity, and sometimes from both, irritates the stomach, and produces violent vomiting and purging.

Children are affected with this disease, from an early period in life, until they are two or three years old; but it more especially exerts its destructive influence on the children of cities, and seldom

affects those who reside in the country.

It most frequently comes on in the evening, or early in the morning; when the patient is usually seized of a sudden with violent vomiting. This is foon fucceeded by purging, accompanied with a fever generally of the remitting kind. The matter discharged in this stage of the disease, is generally of a green or yellow colour, large in quantity, but sometimes the stools assume the appearance of those evacuated in a dyfentery, or flux, and attended with much griping. Towards evening the fymptoms generally increase. The vomiting and purging are confiderably augmented, with an evident exacerbation of fever. This is attended with head-ach, reftleffnefs, retraction of the navel, great thirst, a quick and feeble pulse, the countenance flushed, particularly during a fit of vomiting, when the patient is in a profuse perspiration, and the skin feels cool and clammy. Every morning the fymptoms fusfer fome abatement. As the disease advances, the patient becomes more exhausted, and has a general appearance of emaciation. The vomiting or purging sometimes ceases, but generally both continue. The stools become less copious, very feetid, and frequently of a water colour. The pulse is generally irregular and feeble, the eyes languid, and they appear to be funk in their orbits. There is also a swelling in the feet and legs. The breathing bocomes difficult; the patient drowfy and insensible. The voice undergoes a considerable alteration. Delerium, dissiculty in breathing, extremities, cold, eyes glassy, and at length

convulsions follow, till death concludes the scene.

This is generally the progress of the discase, when it terminates in death, but it is sometimes protracted to an uncommon period. This is the case when the symptoms are more moderate, or have been interrupted by a short continuance of cool weather. But at last they return with increasing violence. The patient becomes excessively extenuated. The swelling of the limbs and belly increase with livid spots on the skin. There is a hectic blush on the cheeks, during the exacerbation of sever, and the disease is frequently accompanied with a fore mouth, which almost always precedes the

dissolution of the patient.

MEDICINE.—The cure of this difease can generally be effected, if assistance is called early. The first step should be to evacuate the offending matter from the stomach and bowels, particularly if the patient is not much exhausted, and if we have reason to believe that the irritating matter is not discharged. This should be accomplished by ordering the patient to drink large quantities of warm water, or warm tea of any kind. But when this cannot be complied with, a few grains of ipecacuanha may be administered, which will empty the stomach, and clear the bowels. Should it not have the latter effect, castor-oil, calomel, or magnesia may be given. When the stomach refuses those medicines, clysters may be employed with advantage.

When the irritating matter has been evacuated, either by the natural efforts of the fystem, or by art, the vomiting must be restrained by giving ten or fifteen drops of laudanum, or in quantities proportioned to the age of the patient. The laudanum should be mixed in mint tea, or cinnamon water. The former, or toast and water, should be the constant drink. This medicine will have the desired effect, and mitigate pain. When the vomiting is with disficulty restrained, slannels rung out of aromatics infused in brandy, must be constantly applied warm to the stomach. Where these fail, a blister applied to the region of the stomach, has sometimes the most hap-

py effect.

After the disease has subsided, the body must be invigorated by stimulants and tonics. The drink must be wine and water, or brandy and water, the latter having the addition of sugar. The patient should also take one tea-spoonful, or half a table-spoonful of a light infusion of bark, with aromatics once in every two or three hours. The food must be light and nourishing, as sago, or gruel. Beef steaks, or almost any animal food, may be taken in small quanticion.

tities.

The patient should reside in the country, and ride every day. This tends much to restore the health. Nay, when every other re-

medy has failed, a change of air and exercise has entirely removed the disease. When it is not convenient for the patient to ride out, he may be carried into the country during the most agreeable part of the day.

The best way to prevent this disease, is for children, when at the age liable to it, to reside, during the summer months, in the country, to avoid every excess in eating, and to be cautious to accommodate their dress to every change of weather.

Of Eruptions:

CHILDREN, while on the breast, are seldom free from erupzions of one kind or other. These are not often dangerous, and ought never to be dried up, but with the greatest caution. They tend to free the bodies of infants from hurtful humours, which,

if retained, might produce fatal disorders.

The eruptions of children are chiefly owing to improper food and neglect of cleanlines. If a child be ftuffed at all hours, with food that its stomach is not able to digest, such food, not being properly assimilated, instead of nourishing the body, sills it with gross humours. These must either break out in form of eruptions upon the skin, or remain in the body, and occasion severs and other internal disorders. Neglect of cleanliness is a very general cause of eruptive disorders. The children of the poor, and of all who despise cleanliness, are almost constantly found to swarm with vermin, and are generally covered with a scab, itch, and other eruptions.

When eruptions are the effect of improper food, or want of cleanliness, a proper attention to these alone, will generally be sufficient to remove them. If this should not be the case, some drying medicines will be necessary. When they are applied, the body ought, at the same time, to be kept open, and cold is carefully to be avoided. No medicine is more safe for drying up cutaneous eruptions than sulphur, provided it be prudently used. A little of the flour of sulphur may be mixed with fresh butter, or hog's lard,

and the parts affected frequently touched with it.

The most obstinate of all the eruptions incident to children are, the tinea capitis, or scabbed head, and chilblains. The scabbed head is often exceeding difficult to cure, and sometimes indeed the cure proves worse than the disease. I have frequently known children seized with internal disorders, of which they died, soon after their scabbed heads had been healed, by the application of drying medicines*. The cure ought always first to be attempted, by keeping

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^{*} I some time ago saw a very striking instance of the danger of substituting drying medicines in the place of cleanlines and wholesome food,

the head very clean, cutting off the hair, combing and brushing away the scabs, &c. If this is not sufficient, let the head be shaved once a-week, washed daily with soap-suds, and gently anointed with a liniment made of train-oil, eight ounces, red precipitate, in fine powder, one drachm. And if there be proud sless, it should be touched with a bit of blue vitriol, sprinkled with a little burnt allum. While these things are doing, the patient must be confined to a regular light diet, the body should be kept gently open; and cold, as far as possible, ought to be avoided. To prevent bad confequences from stopping this discharge, it will be proper, especially in children of a gross habit, to make an issue in the neck or arm, which may be kept open till the patient becomes more strong, and the constitution be somewhat mended.

Chilblains commonly attack children in cold weather. They are generally occasioned by the feet or hands being kept long wet or cold, and afterwards suddenly heated. When children are cold, instead of taking exercise to warm themselves gradually, they run

to the fire.

To prevent this disease, violent cold and sudden heat must be equally avoided. When the parts begin to look red and swell, the patient ought to be purged, and have the affected parts frequently rubbed with mustard and brandy, or something of a warming nature. They ought likewise to be covered with slannel, and kept warm and dry. Some apply warm ashes between cloths to the swelled parts, which frequently help to reduce them. When there is a fore, it must be dressed with Turner's cerate, the ointment of tutty, the plaister of cerus, or some other drying ointment. These sore indeed troublesome, but seldom dangerous. They generally heal as soon as the warm weather sets in.

Of the Hives.

THIS difease in Scotland is called the croup, but in America it is best known by the name of hives. It may be divided into two kinds, the humid and spasmodic. The former is the present sub-

in the foundling hospital as Ackworth, where the children were grievously afflicted with scabbed heads and other cutaneous disorders. Upon inquiry, it was found, that very little attention was paid either to the propriety or foundness of their provisions, and that cleanliness was totally neglected; accordingly, it was advised, that they should have more wholesome food, and be kept thoroughly clean. This advice, however, was not followed. It was too troublesome to the servants, superintendants, &c. The business was to be done by medicine; which was accordingly attempted, but had nearly proved fatal to the whole house. Fevers and other internal disorders immediately appeared; at length, a putrid dysentery, which proved so infectious, that it carried off a great many of the children, and spread over a considerable part of the neighbouring country.

feet of confideration, and may be known by a peculiar croaking found of the voice, like the barking of a dog, or, by fome, compared to the crowing of a cock, attended with a difficulty of brea-

This disease generally affects children under nine years of age, but no age is exempt from its violence. It generally feizes children during foggy weather, or early in the fpring when damp weather fucceeds the winter cold.

SYMPTOMS.—It comes on gradually; the patient is obferved to lofe his usual gaiety, and symptoms of fever appear, with defective appetite, attended by a flight difficulty of breathing; a dry, short cough with hoarseness, and the bowels are generally costive. The countenance appears heavy, and indicates diftrefs. The breathing becomes quick and interrupted, and a peculiar croaking found of the voice is heard, particularly when the patient attempts to cough, at which time the face appears highly flushed and almost livid. The carotid and temporal ararteries throb greatly. The pulse is sometimes hard, and generally quick. As the difease advances, the patient becomes very restlers. The breathing is more interrupted and laborious, with a rattling of phlegm in the throat. The nostrils expand and contract, the shoulders are strongly elevated at every inspiration, and the cheeks distended with air at every expiration, accompanied with great anxiety and fense of suffocation. The pulse becomes extremely feeble; skin clammy; the extremities cold and livid. At length the patient is exhausted and dies.

MEDICINE. ——In the cure of this disease, if the pulse is full and hard, blood should be taken from the arm or jugular vein, but the most promising effects are to be expected from large doses of calomel. Eight or ten grains of this medicine should be early administered, combined with as many of julap, according to the age of the patient, in order to produce copious evacuations; after which, if the symptoms should not subside, the patient must be vomited with tartar emetic or ipecacuanha, and the calomel should be repeated. Blifters must be applied to the fore part of the neck. These remedies should be continued until the symptoms disappear. The patient's strength should then be restored, by nourishing diet and tonic medicines, fuch as bark, ficel, cold bathing, affifted by

exercise.

Spasmodic Hives.

THIS difease bears some resemblance to the preceding, in asfecting children under similar circumstances, but differing in its manner of attack. It most generally comes on of a fudden during the heat of the day, without any apparent previous indifposition; or in the course of the evening, when children frequently awake from their sleep with hoarseness, slight cough, and great dissiculty in breathing, which obliges them to assume an erect posture, for fear of suffocation. The face is generally slushed, and its being distorted, exhibits strong signs of anxiety and distress. These symptoms are accompanied with a peculiar croaking tone of the voice in coughing; full and quick pulse, with an increase of heat; considerable thirst; and, towards the close of the disease, a rattling of phlegm may be heard in the throat. The breathing becomes more interrupted and laborious, with a strong elevation of the shoulder at every inspiration; great restlessness, pulse quick, and extremely seeble; the extremities become cold, and every hope of recovery soon vanishes.

This is the progress of the disease when it terminates in death, which generally takes place on or before the third day. But sometimes its attack is moderate, and only lasts a few hours, and returns again the following evening. The seat of this complaint appears to be in the muscles surrounding the larynx, or upper part of the wind-pipe, which are no doubt violently and fometimes permanently affected with spasm, which strongly points out the propriety of the following mode of relief. If the pulse is full and. hard, blood must be taken from the arm or jugular vein, and the patient immediately put into the warm bath, or the feet and legs bathed in warm water. Should the fymptoms not subside, a blifter must be applied to the forepart of the neck, and laudanum must be administered, to co-operate with the other remedies in removing the spasm. The bowels should be kept open, with calomel and jalap, and when the phlegm in the wind-pipe impedes the breathing, an emetic may be given. These medicines must be used during a fit or paroxysm, after which the system must be invigorated, to prevent a return of the disease, by tonics and stimulants, such as bark, wine, steel, and cold bathing, affisted by nourishing food, aud suitable exercise.



Of Teething.

Dr. ARBUTHNOT observes, that above a tenth part of infanta die in teething, by symptoms proceeding from the irritation of the tender nervous parts of the jaws, occasioning inflammations, severs, convulsions, gangrenes, &c. These symptoms are in a great measure owing to the great delicacy and exquisite sensibility of the nervous system at this time of life, which is too often increased by an effeminate education. Hence, children delicately brought up, always suffer most in teething, and often fall by convulsive disorders.

About the fixth or seventh month the teeth generally begin to make their appearance; first, the *incifores*, or fore-teeth; next, the *canini*, or dog-teeth; and, lastly, the *molares*, or grinders. About the seventh year, there comes a new set; and about the twentieth, the two inner grinders, called *dentes sapientia*, the teeth of wisdom.

Children, about the time of cutting their teeth, flaver much, and have generally a loofenefs. When the teething is difficult, especially when the dog-teeth begin to make their way through the gums, the child has startings in his sleep, tumours of the gums, watchings, gripes, green stools, the thrush, fever, difficult breathing, and con-

vulfions.

Difficult teething require nearly the fame treatment as an inflammatory difease. If the body be bound, it must be opened either by emollient clysters or gentle purgatives; as manna, magnesia alba, senna, or the like. The food should be light, and in small quantity; the drink plentiful, but weak and diluting, as infusions of balm, or of the lime-tree flowers; to which about a third or fourth

part of milk may be added.

If the fever be high, bleeding will be necessary; but this in very young children ought always to be sparingly performed. It is an evacuation which they bear the worst of any. Purging, vomiting, or sweating agree much better with them, and are generally more beneficial. Harris, however, observes, that when an inflammation appears, the physician will labour in vain, if the cure be not begun with applying a leech under each ear. If the child be seized with convulsion fits, a blister may be applied between the shoulders, or one behind each ear*.

Sydenham fays, that in fevers occasioned by teething, he never found any remedy so effectual, as two, three, or four drops of spirits of hartshorn in a spoonful of simple water, or other convenient vehicle, given every four hours. The number of doses may be four, sive, or six. I have often prescribed this medicine with success, but always found a larger dose necessary. It may be given from five drops to sifteen or twenty, according to the age of the child.

In Scotland, it is very common, when children are cutting their teeth, to put a small Burgundy-pitch plaister between their shoulders. This generally eases the tickling cough which attends teething, and is by no means an useless application. When the teeth are cut with difficulty, it ought to be kept on during the whole time of teething. It may be enlarged as occasion requires, and ought to be renewed, at least once a fortnight.

Several things have been recommended for rubbing the gums, as oils, mucilages, &c.; but from these, much is not to be expected. If any thing of this kind is to be used, we would recommend a little fine honey, which may be rubbed on with the finger three or

^{*} The child fhould be put into the warm bath, and a fuitable dose of laudanum administered. (I. G.)

four times a-day. Children are generally at this time disposed to chew whatever they get into their hands. For this reason, they ought never to be without somewhat that will yield a little to the pressure of their gums, as a crust of bread, a wax-candle, a bit of liquoriceroot, or such like.

With regard to cutting the gums, we have feldom known it of great benefit. In obstinate cases, however, it ought to be tried. It may be performed by any sharp body which can be with safety introduced into the mouth; but the lancet, in a skilful hand, is the

most proper.

To render the teething less disficult, parents ought to take care that their children's food be light and wholesome, and that their nerves be braced by sufficient exercise without doors, the use of the cold bath, &c. Were these things duly regarded, they would have a much better essect than teething necklaces, or other nonsensical annules; worn for that purpose.

The Rickets

and the sale of a

GENERALLY attack children between the age of nine months and two years. It appeared first in England about the time when manufactures began to siourish, and still prevails most in towns where the inhabitants follow sedentary employments, by which means they neglect either to take proper exercise themselves, or to

give it to their children.

CAUSES.—One cause of the rickets is discassed parents. Mothers of a weak relaxed habit, who neglect exercise, and live upon weak watery diet, can neither be expected to bring forth strong and healthy children, or to be able to nurse them after they are brought forth. Accordingly, we find, that the children of such women generally die of the rickets, the scrophula, consumptions, or such like diseases. Children begotten by men in the decline of life, who are subject to the gout, the gravel, or other chronic diseases, or who have been often affected with the venereal disease in their youth, are likewise very liable to the rickets.

Any diforder that weakens the conflitution, or relaxes the habit of children, as the finall-pox, measies, teething, the hooping-cough, &c. disposes them to this disease. It may be occasioned by improper diet, as food that is either too weak and watery, or so viscid

that the flomach cannot digest it.

Bad nursing is the chief cause of this disease. When the nurse is either diseased, or has not enough of milk to nourish the child, it cannot thrive. But children suffer oftner by want of care in nurse; than want of food. Allowing an infant to lie or sit too much, or not keeping it thoroughly clean in its clothes, has the most permicious effects.

The want of free air is likewife very hurtful to children in this respect. When a nurse lives in a close, small house, where the air is damp and confined, and is too indolent to carry her child abroad into the open air, it will hardly escape this disease. A healthy child should always be in motion, unless when assecp; if it be suffered to lie, or sit, instead of being tossed and dandled about, it will not thrive.

SYMPTOMS.—At the beginning of this disease the child's flesh grows soft and slabby; its strength is diminished; it loses its wonted cheerfulness, looks more grave and composed than is natural for its age, and does not choose to be moved. The head and belly become too large in proportion to the other parts; the face appears full, and the complexion florid. Afterwards the bones begin to be affected, especially in the more soft and spungy parts. Hence the wrifts and ancies become thicker than usual; the spine or back-bone puts on an unnatural shape; the breast is likewise often deformed; and the bones of the arms and legs grow crooked. These symptoms vary according to the violence of the disease. The pulse is generally quick, but feeble; the appetite and digestion for the most part bad; the teeth come slowly and with disficulty, and they often rot and fall out afterwards. Ricketty children generally have great acuteness of mind, and an understanding above their years. Whether this is owing to their being more in company of adults than other children, or to the preternatural enlargement of the brain, is not material.

REGIMEN. ——As this difease is always attended with evident figns of weakness and relaxation, our chief aim in the cure, must be, to brace and strengthen the solids, and to promote digestion, and the due preparation of the sluids. These important ends will be best answered by wholesome nourishing diet, suited to the age and strength of the patient, open dry air, and sufficient exercise. If the child has a bad nurse, who either neglects her duty, or does not understand it, she should be changed. If the season be cold, the child ought to be kept warm; and when the weather is hot, it ought to be kept cool; as sweating is apt to weaken it; and too great a degree of cold has the same effect. The limbs should be rubbed frequently with a warm hand, and the child kept as cheerful as

The diet ought to be dry and nourishing, as good bread, roasted steff, &c. Biscuit is generally reckoned the best bread; and pigeous, pullets, veal, rabbits, or mutton roasted or mineed, are the most proper steff. If the child be too young for steff-meats, he may have rice, millet, or pearl-barley boiled with raisins, to which may be added a little wine and spice. His drink may be good elaret, mixed with an equal quantity of water. Those who cannot afford claret, may give the child, now and then, a wine-glass of mild

ale, or good porter.

possible.

MEDICINE. Medicines are here of little avail. The discase may often be cured by the nurse, but seldom by the physician. In

children of a groß habit, gentle vomits, and repeated purges of rhubarb may fometimes be of use, but they will seldom carry off the disease; that must depend chiefly upon such things as brace and strengthen the system: for which purpose, besides the regimen mentioned above, we recommend the cold bath, especially in the warm season. It must, however, be used with prudence, as some ricketty children cannot bear it. The best time for using the cold bath is in the morning, and the child should be well rubbed with a dry cloth immediately after he comes out of it. If the child should be weakened by the cold bath, it must be discontinued.

Sometimes issues have been found beneficial in this disease.—They are peculiarly necessary for children who abound with gross humours. An insusion of the bark in wine or ale would be of service, were it possible to bring children to take it. Many other medicines have been recommended for the rickets; but there is far more danger in trusting to these than in neglecting them altogether. We recommend a proper regimen as the thing chiefly to be de-

pended on.

Of Convulsions.

THOUGH more children are faid to die of convulsions than of any other disease, yet they are, for the most part, only a symptom of some other malady. Whatever greatly irritates or stimulates the nerves, may occasion convulsions. Hence, infants, whose nerves are easily affected, are often thrown into convulsions by any thing that irritates the alimentary canal; likewise, by teething; strait clothes; the approach of the small-pox, measles, or other eruptive diseases.

When convulsions proceed from an irritation of the stomach or bowels, whatever clears them of their acrid contents, or renders these mild and inossensive, will generally perform a cure: wherefore, if the child be costive, the best way will be to begin with a clyster, and afterwards to give a gentle vomit, which may be repeated occasionally, and the body in the mean time kept open by

gentle doses of magnefia alba.

Convulsions which precede the eruption of the small-pox or measles, generally go off upon these making their appearance. The principal danger in this case, arises from the sears and apprehensions of those who have the care of the patient. Convulsions are very alarming, and something must be done to appease the affrighted parents, nurses, &c. Hence the unhappy infant often undergoes bleeding, blistering, and several other operations, to the great danger of its life, when a little time, bathing the seet in warm-water, and throwing in a mild clyster, would have set all to rights.

When convulsion-fits arise from the cutting of teeth, besides gentle evacuations, we recommend blistering, and the use of antispasmodic medicines, as the tincture of soot, asasocida, or castor. A dose of laudanum may be mixed in a cup of white-wine whey,

and given occasionally.

When convultions proceed from any external cause, as the preffure occasioned by strait clothes or bandages, &c. these ought immediately to be removed; though, in this case, taking away the cause will not always remove the effect, yet it ought to be done. It is not likely that the patient will recover, as long as the cause which first gave rise to the disorder continues to act.

When a child is seized with convulsions, without having any complaint in the bowels, or symptoms of teething; or any rash or other discharge which has been suddenly dried up, we have reason to conclude that it is a primary discase, and proceeds immediately from the brain. Cases of this kind happen but seldom, which is very fortunate, as little can be done to relieve the patient. When a disease proceeds from an original fault in the formation or structure of the brain itself, we cannot expect that it should yield to medicine. But as this is not always the cause, even of convulsions which proceed immediately from the brain, some attempts should be made to remove them. The chief attention to be pursued for this purpose, is to make some derivation from the head, by blistering, purging, and the like. Should these fail, issues or setons may be put in the neck, or between the shoulders.

Water in the Head, or a Dropfy of the Brain,

MAY affect adults as well as children, yet, as the latter are more peculiarly liable to it, we thought it proper to place it among the diseases of infants.

CAUSES.—A dropfy of the brain may proceed from injuries done to the brain itself, by falls, blows, or the like; from an original laxity or weakness of the brain; from schirrous tumors, or excrescences within the skull; a thin, watery state of the blood; a diminished secretion of urine; and, lastly, from tedious and lingering

diseases, which waste and consume the patient.

SYMPTOMS.—This difease has at first the appearance of a slow fever; the patient complains of a pain in the crown of his head, or over his eyes; he shuns the light; is sick, and sometimes vomits; his pulse is irregular and generally low: though he seems heavy and dull, yet he does not sleep: he is sometimes delirious, and frequently sees objects double; towards the end of this commonly stall disease, the pulse becomes more frequent, the pupils of the eyes are generally dilated, attended with squinting; the cheeke slushed, the patient becomes comatose, and convulsions ensue.

MEDICINE.—No medicine has hitherto been found fufficient to carry off a dropfy of the brain. It is laudable, however, to make fome attempts, as time or chance may bring many things to light, of which at prefent we have no idea. The medicines generally used are, purges of rhubarb or jalap with calomel, and blisters applied to the neck or back part of the head. To which we beg leave to add diuretics, or medicines which promote the secretion of urine, such as are recommended in the common dropfy. A discharge from the nose ought likewise to be promoted, by causing the patient to snuff the powder of asarum, white hellebore, or the like.

Some practitioners have, of late, pretended, to cure this difease by the use of mercury. I have not seen a cure personned in a confirmed dropsy of the brain*; but in so desperate a malady, every

thing deferves a trial+.

* The cure of this disease may sometimes be effected, by attending to the following circumstance, and directing the remedies accordingly: If the pulse is full, and the fever considerable, which is usually the case. in the first stage of this disease, blood should be taken from the arm, and the operation repeated if uecessary. The quantity to be taken must depend upon the urgency of the symptoms and age of the patient: during the time of bleeding, purging should be produced with calomel and ja-lap, and every part of the cooling regimen strictly enjoined. Blisters must be applied to the neck, with the previous application of cupping-glasses; the blisters should be suffered to discharge, until a reduction of the inflammatory fymptoms has been effected, or until the difease has pasfed into the fecond stage. In which, an effusion of water is suspected to have taken place in the brain. This may be conjectured, from a quick and feeble pulse; together with a continuance of the dilated pupil and fquinting eye; the treatment must be then varied, and the system charged with mercury, in order to promote the absorption, and carry off the water; for this purpose, one or two drachms of mercurial ointment must be rubbed into the inside of each thigh, every morning and evening, until the gums are affected: This practice must be continued until the fymptoms are removed. After this, the debilitated fystem should be invigorated by tonics, fuch as bark, steel, exercise, nourishing food, and cold bathing.

† One reason why this disease is seldom or never cured, may be, that it is seldom known till too far advanced to admit of a remedy. Did parents watch the first symptoms, and call a physician in due time, I think that something might be done. But these symptoms are not sufficiently known and are often mistaken even by physicians themselves. Of this, I lately saw a striking instance, in a patient attended by an eminent practitioner of this city, who had all along mistaken the disease for teething.

CHAPTER LII.

Of Surgery.

describe all the operations of furgery, and point out the different diseases in which they are necessary, would extend this article far beyond the simits set to it; we therefore confine our observations to such cases as most generally occur, and in which proper assistance is either not asked, or not always to be obtained.

Though an acquaintance with the firuture of the humane body is indiffentably necessary to qualify a man for being an expert furgeon; yet many things may be done to fave the lives of their fellow-men in emergencies by those who are no adepts in anatomy. The peasants daily perform operations upon brute animals, which are not of a less difficult nature than many of those performed on the

human species; yet they seldom fail of success.

Every man is in some measure a surgeon whether he will or not. He feels an inclination to assist his fellow-men in distress, and accidents happen every hour which give occasion to exercise this feeling. The feelings of the heart, however, when not directed by the judgment, are apt to mislead. Thus one, by a rash attempt to save his friend, may sometimes destroy him; while another, for sear of doing amiss, stands still, and sees him expire without attempting to relieve him, even when the means are in his power. As every good man would wish to steer a course disserted from either of these, it will, no doubt, be agreeable to him, to know what ought to be done upon such emergencies.

Of Bleeding.

NO operation of furgery is fo frequently necessary as bleeding; it ought, therefore, to be very generally understood. But though practifed by midwives, gardeners, blacksmiths, &c. very few know when it is proper. Physicians themselves have been so much the dupes of theory in this article, as to render it the subject of ridicule. It is an operation of great importance, and must, when sea-sonably and properly performed, be of singular service to those in distress.

Bleeding is proper at the beginning of all inflammatory fevers, as pleurifies, peripneumonies, &c. It is likewife proper in all topical inflammations, as those of the intestines, womb, bladder, stomach, kidnies, throat, eyes, &c. as also in the asthma, sciatic pains, coughs, head-achs, rheumatisms, the apoplexy, epilepsy, and bloody flux. After falls, blows, bruises, or any violent hurt re-

ceived either externally or internally, bleeding is necessary. But in all disorders proceeding from a relaxation of the solids, and an impoverished state of the blood, as dropsies, cacochymies, &c.

bleeding is improper.

Bleeding for topical inflammations ought always to be performed as near the part affected as possible. When this can be done with a lancet, it is to be preferred to any other method; but where a vein cannot be found, recourse must be had to leeches or

cupping.

The quantity of blood to be let must always be regulated by the strength, age, constitution, manner of life, and other circumstances relating to the patient. It would be ridiculous to suppose that a child could bear to loose as much blood as a grown person, or that a delicate lady should be bled to the same extent as a robust man.

From whatever part of the body blood is to be let, a bandage must be applied between that part and the heart. As it is often necoffary, in order to raise the vein, to make the bandage pretty tight, it will be proper in such cases, as soon as the blood begins to flow, to slacken it a little. The bandage ought to be applied at least an inch, or an inch and half from the place where the wound is intended to be made.

Persons not skilled in anatomy ought never to bleed in a vein that lies over an artery or a tendon, if they can avoid it. The sormer may easily be known from its pulsation or beating, and the latter from its feeling hard or tight, like a whip-cord under the

finger.

It was formerly a rule, even among regular practitioners, to bleed their patients in certain diseases till they fainted. A more ridiculous rule could not be proposed. One person will saint at the very sight of a lancet, while another will loose almost the whole blood of his body before he faints. Swooning depends more upon the state of the mind than of the body; besides, it may often be occasioned or prevented by the manner in which the operation is performed.

Children are generally bled with leeches. This, though fometimes necessary, is a very troublesome and uncertain practice. It is impossible to know what quantity of blood is taken away by leeches; besides, the bleeding is often very difficult to stop, and the wounds are not easily healed. Would those who practise bleeding take a little more pains, and accustom themselves to bleed children, they would not find it such a difficult operation as they

imagine.

Certain hurtful prejudices, with regard to bleeding, still prevail among the country people. They talk, for instance, of head-veins, heart-veins, breast-veins, &c. and believe that bleeding in these will certainly cure all diseases of the parts from whence they are supposed to come, without considering that all the blood-vessels artife from the heart, and return to it again; for which reason, unless in topical inflammations, it signifies very little from what part of the body blood is taken. But this, though a foolish prejudice, is not near so hurtful as the vulgar, notion, that the sirst bleeding will perform wonders. This belief makes them often postpone the operation when necessary, in order to reserve it for some more important occasion, and, when they think themselves in extreme danger, they sly to it for relief, whether it be proper or not. Bleeding at certain stated periods or seasons has, likewise, bad effects.

It is, likewise, a common notion, that bleeding in the feet draws the humours downwards, and consequently cures diseases of the head and other superior parts: but in all topical affections, blood ought to be drawn as near the part as possible. When it is necessary to bleed in the foot or hand, as the veins are small, and the bleeding is apt to stop too soon, the part ought to be immersed in warm water, and kept there till a sufficient quantity of blood be let.

We shall not spend time in describing the manner of performing this operation: that will be better learned by example than precept. Twenty pages of description would not convey so just an idea of the operation as seeing it once performed by an expert hand. Neither is it necessary to point out the different parts of the body from whence blood may be let, as the arm, soot, forehead, temples, neck, &c. These will readily occur to every intelligent person, and the foregoing observations will be sufficient for determining which of them is most proper upon any particular occasion. In all cases where the intention is only to lessen the general mass of blood, the arm is the most commodious part of the body in which the operation can be performed.

Of Inflammations and Abscesses.

FROM whatever cause an inflammation proceeds, it must terminate either by dispersion, suppuration, or gangrene. It is impossible to foretel, with certainty, in which of these ways any particular inflammation will terminate, yet a probable conjecture may be formed with regard to the event, from a knowledge of the patient's age and constitution. Inflammations happening in a slight degree upon colds, and without any previous indisposition, will most probably be dispersed; those which follow close upon a sever, or happen to persons of a gross habit of body, will generally suppurate; and those which attack very old people, or persons of a dropsical habit, will have a strong tendency to gangrene.

If the inflammation be flight, and the constitution found, the dispersion ought always to be attempted. This will be best pro-

moted by a flender diluting diet, plentiful bleeding, and repeated purges. The part itself must be fomented, and if the skin be very tense, it may be embrocated with a mixture of three-fourths of sweet-oil, and one-fourth of vinegar, and afterwards covered with

a piece of wax-plaitter.

If, nowithstanding these applications, the symptomatic sever increases, and the tumour becomes larger, with violent pain and pulsation, it will be proper to promote the suppuration. The best application for this purpose is a soft poultice, which may be renewed once a-day. If the suppuration proceeds but slowly, a raw onion cut small or bruised may be spread upon the poultice. When the abscess is ripe or sit for opening, which may easily be known from the thinness of the skin in the most prominent part of it, a sluctuation of matter, which may be felt under the singer, and, generally speaking, an abatement of the pain, it may be opened with a lancet, or by means of caustic.

The last way in which an inflammation terminates, is in a gangrene, or mortification, the approach of which may be known by the following symptoms: The inflammation looses its redness, and becomes duskish or livid; the tension of the skin goes off, and it feels slabby; little bladders filled with ichor of different colours spread all over it; the tumour subsides, and from a duskish complexion, becomes black. A quick low pulse, with cold clammy

fweats, are the immediate forerunners of death.

When these symptoms first appear, the part cught to be dressed with cataplasms made of lixivium and bran. Should the symptoms become worse, the part must be scarified, and afterwards dressed with basilicum sostened with oil of turpentine. All the dressings must be applied warm. With regard to internal medicines, the patient must be supported with generous cordials, and the bark exhibited in as large doses as the stomach will bear it. If the mortissed parts should separate, the wound will become a common ulcer, and must be treated accordingly.

This article includes the treatment of all those diseases, which, in different parts of the country, go by the names of biles, imposibilities, whitloes, &c. They are all abscesses in consequence of a previous inflammation, which, if possible, ought to be discussed; but when this cannot be done, the suppuration should be promoted, and the matter discharged by an incision, if necessary; afterwards the fore may be dressed with yellow basilicum, or some other

digestive ointment.

Of Wounds.

NO part of medicine has been more mistaken than the treatment or cure of wounds. Mankind, in general, believe that certain herbs, ointments, and plaisters are possessed of wonderful healing powers, and imagine that no wound can be cured without the application of them. It is, however, a fact, that no external application, whatever, contributes towards the cure of a wound, any other way than by keeping the parts soft, clean, and defending them from the external air, which may be as effectually done by dry lint, as by the most pompous applications, while it is exempt from many of the bad consequences attending them.

The same observation holds with respect to internal applications. These only promote the cure of wounds as far as they tend to prevent a sever, or to remove any cause that might obstruct or impede the operations of nature. Nature alone cures wounds.— Art can only remove obstacles, and put the parts in such a condi-

tion as is most favourable to Nature's efforts.

With this simple view, we shall consider the treatment of wounds, and endeavour to point out such steps as facilitate their cure.

The first thing to be done when a person has received a wound, is to examine whether any foreign body be lodged in it, as wood, stone, iron, lead, glass, dirt, bits of cloth, or the like. These, if possible, ought to be extracted, and the wound cleaned, before any dressings be applied. When that cannot be effected with safety, on account of the patient's weakness, or loss of blood, they must be suffered to remain in the wound, and afterwards extracted when he is more able to bear it.

When a wound penetrates into any of the cavities of the body, as the breast, the bowels, &c. or where any considerable blood-vessel is cut, a skilful surgeon ought immediately to be called, otherwise the patient may loose his life. But sometimes the discharge of blood is so great, that if it be not stopt, the patient may die even before a furgeon, though at no great distance, can arrive. In this case, something must be done by those who are present. If the wound be in any of the limbs, the bleeding may generally be stopt by applying a tight ligature or bandage round the member a little above the wound. The best method of doing this, is, to put a strong broad garter round the part, but so slack as eafily to admit a finall piece of stick to be put under it, which must be twifted, in the same manner as a countryman does a cart-rope to fecure his loading, till the bleeding stops. Whenever this is the case, he must take care to twist it no longer, as straining it too much might occasion an inflammation of the parts, and endanger a gangrene.

In parts where this bandage cannot be applied, various other methods may be tried to stop the bleeding, as the application of

flyptics, aftringents, &c. Cloths dipped in a folution of blue viriol in water, or the flyptic water of the Dispensatories, may be applied to the wound. When these cannot be obtained, strong spirits of wine may be used. Some recommend the agaric* of the oak as preserable to any of the other styptics; and, indeed, it deserves considerable encomiums. It is easily obtained, and ought to be kept in every samily, in case of accidents. A piece of it must be laid upon the wound, and covered with a good deal of lint, above which a bandage may be applied so tight as to keep it firmly on.

Though fpirits, tinctures, and hot balfams may be used, in order to stop the bleeding when it is excessive, they are improper at other times. They do not promote but retard the cure, and often change a simple wound into an user. People imagine, because hot balfams congeal the blood, and seem, as it were, to solder up the wound, that they therefore heal it; but this is only a deception. They may stop the slowing blood, by searing the mouths of the vessels; but, by rendering the parts callous, they obstruct the

cure.

In flight wounds, which do not penetrate much deeper than the skin, the best application is a bit of the common black slicking-plaister. This keeps the sides of the wound together, and prevents the air from hurting it, which is all that is necessary. When a wound penetrates deep, it is not safe to keep its lips quite close: this keeps in the matter, and is apt to make the wound sester. In this case, the best way is to fill the wound with soft lint, commonly called caddis. It, however, must not be stuffed in too hard, otherwise it will do hurt. The caddis may be covered with a cloth dipped in oil, or spread with the common wax-plaister+; and the whole must be kept on by a proper bandage. Common sense will suggest the most commodious method of applying it.

* Dr. Tissot, in his Advice to the People, gives the following directions for gathering, preparing, and applying the agaric. "Gather in autumn," says he, "while the sine weather lasts, the agaric of the oak, which is a kind of fungus or excrescence issuing from the wood of that tree. It consists at first of four parts, which present themselves successively: 1. The outward rind or skin, which may be thrown away. 2. The part immediately under this rind, which is the best of all. This is to be beat well with a hammer, till it becomes soft and very pliable.—This is the only preparation it requires, and a slice of it of a proper size to be applied directly over the bursting open blood-vessels. It constringes and brings them close together, stops the bleeding, and generally falls off at the end of two days. 3. The third part, adhering to the second, may serve to stop the bleeding from the smaller vessels; and the fourth and last part, may be reduced to powder, as conducing to the same purpose."—Where the agaric cannot be had, sponge may be used in its stead. It must be applied in the same manner, and has nearly the same effects.

The first dressing ought to continue on for at least two days; after which it may be removed, and fresh lint applied as before. If any part of the first dressing sticks so close as not to be removed with ease or safety to the patient, it may be allowed to continue, and fresh lint, dipped in fweet oil, laid over it. This will fosten it, fo as to make it come off eafily at next dressing. Afterwards the wound may be dressed twice a-day in the same manner till it be quite healed. Those who are fond of falves or ointments, may, after the wound is become very fuperficial, dress it with the yellow basilicum; * and if fungous, or what is called proud sless, should rife in the wound, it may be checked, by mixing with the ointment a little burnt alum or red precipitate of mercury.

When a wound is greatly inflamed, the most proper application is a poultice of bread and milk, foftened with a little fweet oil or fresh butter. This must be applied instead of a plaister, and should

be changed twice a-day.

If the wound be large, and there is reason to fear an inflammation, the patient should be kept on a very low diet. He must abstain from slesh, strong liquors, and every thing of a heating nature. If he be of a full habit, and has lost but little blood from the wound, he must be bled; and, if the fymptoms be urgent, the operation may be repeated. But when the patient has been greatly weakened by lofs of blood from the wound, it will be dangerous to bleed him, even though a fever should ensue. Nature should never be too far exhausted. It is more fafe to allow her to struggle with the disease in her own way, than to fink the patient's strength by excessive evacuations.

Wounded persons ought to be kept perfectly quiet and easy. Every thing that ruffles the mind or moves the passions, as love, anger, fear, excessive joy, &c. are very hurtful. They ought, above all things, to abstain from venery. The body should be kept gently open, either by laxative clysters, or a cool vegetable diet, as roaf-

red apples, stewed prunes, boiled spinage, and such-like.



IN flight burns which do not break the fkin, it is customary to hold the part near the fire for a competent time, to rub it with falt, or lay a compress upon it dipped in spirits of wine, brandy, or cold vinegar. But when the burn has penetrated fo deep as to blifter or break the skin, it must be dressed with some of the liniment for burns, mentioned in the Appendix, or with the emollient and gently drying ointment, commonly called Turner's cerate.* This may be mixed with an equal quantity of fresh olive oil, and spread upon a soft rag, and applied to the part affected. When this ointment cannot be bad, an egg may be beat up with about an equal quantity of the sweetest salad oil. This will serve very well till a proper ointment can be prepared. When the burning is very deep, after the first two or three days, it should be dressed with equal parts of yellow basilicum and Turner's cerate,

mixed together.

When the burn is violent, or has occasioned a high degree of inflammation, as there is reason to fear a gangrene or mortification, the same means must be used to prevent it as are recommended in other violent inflammations. The patient, in this case, must live low, and drink freely of weak diluting liquors. He must likewise be bled, and have his body kept open. But if the burnt parts should become livid or black, with other symptoms of mortification, it will be necessary to bathe them frequently with warm camphorated spirits of wine, tincture of myrrh, or other antiseptics, mixed with a decoction of the bark. The bark must be taken internally, and

the patient's dict must be generous.

As example teaches better than precept, I shall relate the treatment of the most dreadful case of this kind that has occurred in my practice. A middle-aged man, of a good constitution, fell into a large vessel full of boiling water, and scalded about one-half of his body. As his clothes were on, the burning in some parts were very deep before they could be got off. For the first two days, the fealded parts had been frequently anointed with a mixture of limewater and oil, which is a very proper application for recent burnings. On the third day, when I first saw him, his fever was high, and his body costive, for which he was bled, and had an emollient clyfter administered. Poultices of bread and milk, softened with fresh butter, were likewise applied to the affected parts, to abate the heat and inflammation. His fever still continuing high, he was bled a fecond time, was kept ftrictly on the cooling regimen, took the faline mixture, with finall doses of nitre, and had an emollient clyfter administered once a-day. When the inflammation began to abate, the parts were dreffed with a digeftive, composed of brown cerate and yellow bafilicum. Where any black fpots appeared, they were flightly fearified, and touched with the tincture of myrrh; and, to prevent their fpreading, the bark was administered. By this course, the man was so well in three weeks, as to be able to attend his business.

^{*} See Appendix, Turner's-cerate.

Bruises

ARE generally productive of worse consequences than wounds. As danger from them does not appear immediately, they are neglected. We proceed to point out the method of treatment.

In flight bruifes it will be fufficient to bathe the part with warm vinegar, to which a little brandy or rum may occasionally be added, and to keep cloths wet with this mixture constantly applied to it. This is more proper than rubbing it with brandy, spirits, or vine, or other ardent spirits, which are commonly used in such cases.

When a bruife is very violent, the patient ought immediately to be bled, and put upon a proper regimen. His food should be light and cool, his drink weak, and of an opening nature; as whey sweetened with honey, decoctions of tamarinds, barley, creamtartar-whey, and such-like. The bruifed part must be bathed with vinegar and water, as directed above; and a poultice made by boiling crumbs of bread, elder-flowers, and camomile-flowers, in equal quantities of vinegar and water, applied to it. This poultice is peculiarly proper when a wound is joined to the bruise. It may be renewed two or three times a-day.

As the structure of the vessels is totally destroyed by a violent bruise, there often ensues a great loss or substance, which produces an ulcerous fore very distinct to cure. If the bone he affected, the fore will not heal before an exsoliation takes place; that is, before the diseased part of the bone separates, and comes out through the wound. This is often a very flow operation, and may even require several years to be completed. Hence it happens, that these fores are frequently mistaken for the king's evil, and treated as such, though, in fact, they proceed solely from the

Injury which the folid parts received from the blow.

Patients in this fituation are peftered with different advices. Every one who fees them proposes a new remedy, till the forcis so much irritated with various and opposite applications, that it is often at length rendered absolutely incurable. The best method of managing such forces is, to take care that the patient's constitution does not suffer by consinement, or improper medicine, and to apply nothing to them but some simple ointment, spread upon soft lint, over which, a poultice of bread and milk, with boiled camemile-slowers, or the like, may be put, to nourish the part, and keep it soft and warm. Nature, thus assisted, will generally in time operate a cure, by throwing off the diseased parts of the bone, after which the force soon heals.

Ulcers

MAY be the confequence of wounds, bruifes, or imposthumes improperly treated; they may likewife proceed from an ill state of

the humours, or what may be called a bad habit of body.

In the latter case, they ought not to be hastily dried up, otherwise it may prove fatal to the patient. Ulcers happen most commonly in the decline of life; and persons who neglect exercise, and live grossly, are most liable to them. They might often be prevented by retrenching some part of the solid seed, or by opening artificial drains, as iffues, setons, or the like.

An ulcer may be distinguished from a wound by its discharging a thin watery humour, which is often so acrid as to instame and corrode the skin; by the hardness and perpendicular situation of its

fides or edges, by the time of its duration, &c.

It requires confiderable skill to be able to judge whether or not an ulcer ought to be dried up. In general, all ulcers which proceed from a bad habit of body, should be suffered to continue open, at least till the constitution has been so far changed by proper regimen, or the use of medicine, that they seem disposed to heal of their own accord. Ulcers, which are the effect of malignant fevers, or other acute diseases, may generally be healed with safety after the health has been restored for some time. The cure ought not to be attempted too foon, nor at any time, without the use of purging medicines and a proper regimen. When wounds or bruifes, have, by wrong treatment, degenerated into ulcers, if the constitution be good, they may generally be healed with fafety. When ulcers either accompany chronical difeases, or come in their stead, they must be cautiously healed. If an ulcer conduces to the patient's health, from whatever causeit proceeds, it ought not to be healed; but if, on the contrary, it wastes the strength, and consumes the patient by a slow fever, it should be healed as soon as possible.

We recommend a first attention to these particulars, to all who have the missortune to labour under this disorder, particularly persons in the decline of life; as often people throw away their lives by the want of it, while they were extolling, and generously rewarding those, whom they ought to have looked upon as their

executioners.

The most preper regimen for promoting the cure of ulcers, is to avoid all spices, salted and high-seasoned food, all strong liquors, and to beside the usual quantity of sless-meat. The body ought to be kept gently open, by a diet, confishing chiefly of cooling, laxative vegetables, and by drinking butter-milk, whey, sweetened with honey, or the like. The patient ought to be kept cheerful, and should take as much exercise as he can easily bear.

When the bottom and fides of an ulcer feem hard and callous,

they may be sprinkled, twice a day, with a little red precipitate of mercury, and afterwards dreffed with the yellow basilicum ointment. Sometimes it will be necessary to have the edges of the ulcer scarified with the lancet.

Lime-water has frequently been known to have very happy effects in the cure of obstinate ulcers. It may be used in the same

manner as directed for the stone and gravel.

Dr. Whytt strongly recommends the use of the solution of corrosive sublimate of mercury in brandy, for the cure of obstinate ill-conditioned ulcers. I have frequently found this medicine prove very successful. The dose is a table-spoonful night and morning; at the same time washing the fore twice or thrice a-day with it. The Doctor informed me, "That he observed washing the fore thrice a-day, with the solution of a triple strength, was very beneficial*."

A fiftulous ulcer can feldom be cured without an operation. It must cither be laid open so as to have its callous parts destroyed by some corrosive application, or they must be entirely cut away by the knife; but as this operation requires the hand of an expert surgeon, there is no occasion to describe it. Ulcers about the anus are most apt to become fiftulous, and are very difficult to cure.—Some, indeed, pretend to have found Ward's Fistula paste very successful in this complaint. It is not a dangerous medicine, and being easily procured, it may deserve a trial; but as these ulcers generally proceed from an ill habit of body, they will feldom yield to any thing except a long course of regimen, assisted by medicines, fitted to correct that particular habit, and to induce an almost total change in the constitution.

CHAP. LIII.

Of Dislocations.

HEN a bone is moved out of its place, or articulation, to as to impede its proper functions, it is faid to be *livated* or diflocated. As this often happens to perfons in fituations where no medical affiftance can be obtained, by which means, limbs, and even lives, are frequently loft, we thall point out the method of reducing the most common luxations, and those which require immediate affiftance. Any perfon of common sense and resolution, who is present when a dislocation happens, may often be of more service to the patient, than the most expert surgeon can, after the swelling and inflammation have come on. When these are present,

^{*} In ulcers of the lower limbs, great benefit is often received from tight rollers or wearing a laced flocking, as this prevents the flux of humours to the fores, and disposes them to heal.

it is difficult to know the state of the joint, and dangerous to attempt a reduction; and by waiting till they are gone off, the muscles become so relaxed, and the cavity silled up, that the bone can

never afterwards be retained in its place.

A recent diflocation may generally be reduced by extension alone, which must always be greater or less according to the strength of the muscles which move the joint, the age, robustness, and other circumstances of the patient. When the bone has been out of its place for any considerable time, and a swelling or inflammation has come on, it will be necessary to bleed the patient, and, after somenting the part, to apply soft poultices, with vinegar to it, for some time, before the reduction is attempted.

All that is necessary, after the reduction, is to apply cloths dipt in vinegar, or camphorated spirits of wine to the part, and to keep it perfectly easy. Many bad consequences proceed from the neglect of this rule. A dislocation feldom happens without the tendons and ligaments of the joint being stretched, and sometimes torn. When these are kept easy till they recover their strength and tone, all goes on very well; but if the injury be increased by too frequent an exertion of the parts, no wonder if they be found

weak and discased ever after.

Dislocation of the Jaw.

THE lower jaw may be luxated by yawning, blows, falls, chewing hard fubstances, or the like. It is casily known from the patient's being unable to shut his mouth, or to cat any thing, as the teeth of the under jaw do not correspond with those of the upper; besides, the chin either hangs down, or is thrown toward one side, and the patient is neither able to speak distinctly, nor to swallow

without confiderable difficulty.

The usual method of reducing a dislocated jaw, is to set the patient upon a low stool, so as an affistant may hold the head sirm, by pressing it against his breast. The operator is then to thrust his two thumbs, being first wrapped up with linen cloths, that they may not slip, as far back into the patient's mouth as he can, while his singers are applied to the jaw externally. After he has got sirm hold of the jaw, he is to press it strongly downwards and backwards, by which means the elapsed heads of the jaw may be easily pushed into their sormer cavities.

The peafants in fome parts of the country have a peculiar way of performing this operation. One of them puts a handkerchief under the patient's chin, then turning his back to that of the patient, pulls him up by the chin, fo as to suspend him from the ground. This method often succeeds, but we think it is dange-

you, and, therefore, recommend the fermer.

Dislocation of the Neck.

THIS may happen by falls, violent blows, or the like.—In this case, if the patient receives no assistance, he soon dies, which makes people imagine the neck was broken: it is, however, for the most part, only partially dislocated, and may be reduced by almost any person who has resolution enough to attempt it. A complete dislocation of the neck is instantaneous death.

When the neck is diflocated, the patient is immediately deprived of all fense and motion; his neck swells, his countenance appears bloated; his chin lies upon his breast, and his face is gene-

rally turned towards one fide.

To reduce this diflocation, the person should immediately be laid upon his back on the ground, and the operator must place himself behind him so as to be able to lay hold of his head with both hands, while he makes a resistance by placing his knees against the patient's shoulders. In this posture he must pull the head with considerable sorce, gently twisting it at the same time, if the sace be turned to one side, till he perceives that the joint is replaced, which may be known from the noise which the bones generally make when going in, the patient beginning to breathe, and the head continuing in its natural posture.

This is one of those operations which it is more easy to perform than describe. It has been happily performed even by women, and often by men of no medical education. After the neck is reduced, the patient ought to be bled, and should be suffered to

rest for some days, till the parts recover their proper tone.

Dislocation of the Ribs.

AS the articulation of the ribs, with the back-bone, is very strong, they are not often dislocated. It sometimes happens.—When a rib is dislocated either upwards or downwards, in order to replace it, the patient should be laid upon his belly, on a table, and the operator must endeavour to push the head of the bone in its proper place. Should this method not succeed, the arm of the disordered side may be suspended over a gate or ladder, and, while the ribs are thus stretched asunder, the heads of such as are out of place may be thrust into their former situation.

Those differentians wherein the heads of the ribs are forced inwards, are both more dangerous and the most difficult to reduce, as neither the hand nor any infirument can be applied internally to direct the luxated heads of the ribs. Almost the only thing that can be done, is, to lay the patient upon his belly, over a cask, or fome gibbous body, and to move the fore-part of the rib inward towards the back, fometimes shaking it; by this means, the heads of the luxated ribs may slip into their former place.

Dislocation of the Shoulder.

THE humerus, or upper bone of the arm, may be diflocated in various directions: It happens most frequently downwards, but very feldom directly upwards. From the nature of its articulation, as well as from its exposure to external injuries, this bone is the most subject to dislocation of any in the body. A dislocation of it may be known by a depression or cavity on the top of the shoulder, and an inability to move the arm. When the dislocation is downward, or forward, the arm is elongated, and a ball or lump is perceived under the arm-pit; but when it is backward, there appears a protuberance behind the shoulder, and the arm is thrown forwards toward the breast.

The usual method of reducing dislocations of the shoulder, is, to seat the patient upon a low stool, and to cause an assistant to hold his body so that it may not give way to the extension, while another lays hold of the arm a little above the elbow, and gradually extends it. The operator then puts a napkin under the patient's arm, and causes it to be tied behind his own neck: by this, while a sufficient extension is made, he lifts up the head of the bone, and, with his hands, directs it into its proper place. There are various machines invented for facilitating this operation, but the hand of an expert surgeon is always more safe. In young and delicate patients, I have generally sound it a very easy matter to reduce the shoulder, by extending the arm with one hand, and thrusting in the head of the bone with the other. In making the extension, the arm ought always to be a little bent.

Dislocation of the Elbow.

THE bones of the fore-arm may be diflocated in any direction. When this is the case, a protuberance may be observed on that side of the arm towards which the bone is pushed, from which, and the patient's inability to bend his arm, a dislocation of this joint may easily be known.

Two affiftants are generally necessary for reducing a dislocation of the elbow; one of them must lay hold of the arm above, and the other below the joint, and make a pretty strong extension, while the operator returns the bones into their proper place. Af-

terwards the arm must be bent, and suspended for some time, with

a fling about the neck.

Luxations of the wrist and singers are to be reduced in the same manner as those of the elbow, viz. by making an extension in different directions, and thrusting the head of the bone into its place.

Dislocation of the Thigh.

When the thigh-bone is diflocated forward and downward, the knee and foot are turned out, and the leg is longer than the other; but when it is difplaced backward, it is usually pushed upward at the same time, by which means, the limb is shortened, and the foot is turned inwards.

When the thigh-bone is displaced forward and downward, the patient, in order to have it reduced, must be laid upon his back, and made fast by bandages, or held by affistants, while, by others, an extension is made by means of slings fixed about the bottom of the thigh, a little above the knee. While the extension is made, the operator must push the head of the bone outward, till it gets into the socket. If the dislocation be outward, the patient must be laid upon his face, and, during the extension, the head of the bone

must be pushed inward.

Diflocations of the knees, ancles and tees, are reduced much in the fame manner as those of the upper extremities, viz. by making an extension in opposite directions, while the operator replaces the bones. In many cases, the extension alone is sufficient, and the bone will slip into its place merely by pulling the limb with sufficient force. It is not hereby meant, that force alone is sufficient for the reduction of dislocations. Skill and address will often succeed better than force. I have known a dislocation of the thigh reduced by one man, after all the force that could be used by six had proved inessectual.

CHAP. LIV.

Of Broken Bones, &c.

HERE is, in most country villages, some person who pretends to the art of reducing fractures. Though in general such persons are very ignorant, yet some of them are very successful; which evidently proves, that a small degree of learning, with a sufficient share of common sense and a mechanical head, will enable a man to be useful in this way. We advise people never to employ

fuch operators, when an expert furgeon can be had; but when that is impracticable, they must be employed; we, therefore, re-

commend the following hints to their confideration:

When a large bone is broken, the patient's diet ought, in all respects, to be the same as in an inflammatory sever. He should, likewise, be kept quiet and cool, and his body open by emollient clysters; or, if these cannot be conveniently administered, by food that is of an opening quality; as stewed prunes, apples boiled in milk, boiled spinage, and the like. Persons accustomed to live high, are not, all of a sudden, to be reduced to a very low diet. This might have satal effects. There is often a necessity for indulging even bad habits, in some measure, where the nature of the disease might require a different treatment.

It will generally be necessary to bleed the patient immediately after a fracture, especially if he be young, of a full habit, or has, at the same time, received any bruise or contusion. This operation should not only be performed soon after the accident happens, but if the patient be very severish, it may be repeated next day. When several of the ribs are broken, bleeding is peculiarly necessary.

If any of the large bones which support the body are broken, the patient must keep his bed for several weeks. It is by no means necessary, however, that he should lie all that time, as is customary, upon his back. This situation sinks the spirits, galls and frets the patient's skin, and renders him very uneasy. After the second week he may be gently raised up, and sit several hours, supported by a bed-chair, or the like, which will greatly relieve him. Great care must be taken in raising him up, and laying him down, that he make no exertions himself, otherwise the action of the muscles may pull the bone out of its place*.

It is of great importance to keep the patient dry and clean while in this fituation. By neglecting this, he is often so galled and excoriated, that he is forced to keep shifting places for ease. I have known a fractured thigh-bone, after it had been kept straight for above a fortnight, displaced by this means, and continue bent for

life, in spite of all that could be done.

It has been customary, when a bone was broken, to keep the limb for five or fix weeks continually upon the stretch. But this is a bad posture. It is both uneasy to the patient, and unfavourable to the cure. The best situation is to keep the limb a little bent. This is

Various pieces of machinery have been contrived for counteracting the force of the muscles, and retaining the fragments of broken bones; but as descriptions of these, without drawings, would be of little use. I shall refer the reader to a cheap and useful performance on the nature and cure of fractures, lately published by Mr. Aitken, surgeon it dinburgh; wherein that gentleman has not only given an account of the machines recommended in fractures by former authors, but has likewise added several improvements of his own, which are peculiarly useful in compound fractures, and in cases where patients with broken bones are obliged to be transported from one place to another.

the posture into which every animal puts its limbs when it goes to rest, and in which sewest muscles are upon the stretch. It is easily effected, by either laying the patient upon his side, or making the

bed to as to favour this position of the limb.

Bone-fetters ought carefully to examine, whether the bone be not shattered or broken into several pieces. In this case, it will sometimes be necessary to have the simb immediately taken off, otherwise a gaugeene or mortification may ensue. The horror which attends the very idea of an amputation often occasions its being delayed in such cases till too late. I have known a limb, where the bones were shattered into more than twenty pieces, that was not amputated before the third day after the accident, when the gangrene had proceeded so far as to render the operation useless.

When a fracture is accompanied with a wound, it must be dref-

fed, in all respects, as a common wound.

All that art can do towards the cure of a broken bone, is to lay it perfectly ftraight, and to keep it quite eafy. All tight bandages do hurt. They had much better be wanting altogether. A great many of the bad confequences which fucceed to fractured bones are owing to tight bandages. This is one of the ways in which the excefs of art, or rather the abuse of it, does more mischief that would be occasioned by the want of it. Some of the most sudden cures of broken bones which were ever known, happened were no bandages were applied at all. Some method must be taken to keep the member steady; but this may be done in many ways without bracing it with a tight bandage.

The best method of retention is by two or more splints made of leather or pasteboard. These, is moderned before they be applied, soon assume the shape of the included member, and are sufficient, by the assistance of a very slight bandage, for all the purposes of retention. The bandage which he would recommend, is, that made with twelve or eighteen tails. It is much easier applied and taken off than rollers, and answers all the purposes of retention equally well. The splints should always be as long as the limb, with holes

cut for the ancles when the fracture is in the leg.

In fractures of the ribs, where a bandage cannot be properly used, an adhesive plaister may be applied over the part. The patient, in this case, ought to keep himself quite easy, avoiding every thing that may occasion sneezing, laughing, coughing, or the like. He ought to keep his body in a straight posture, and should take care that his stomach be constantly distended, by taking frequently some light food, and drinking freely of weak watery liquors.

The most proper external application for a fracture is oxycrate, or a mixture of vinegar and water. The bandages should be wet

with this at every dreffing.

Of Strains.

STRAINS are often attended with worse consequences than broken bones. The reason is obvious; they are generally neglected. When a bone is broken, the patient is obliged to keep the member easy, because he cannot make use of it; but when a joint is only strained, the person, finding he can still make a shift to move it, is sorry to lose his time for so trisling an ailment. In this way, he deceives himself, and converts it into an incurable malady, what might have been removed by only keeping the part easy for a sew days.

Country people generally immerfe a strained limb in cold water. This is very proper, provided it be done immediately, and not kept in too long. But the custom of keeping the part immersed in cold water for a long time is certainly dangerous. It relaxes instead of bracing the part, and is more likely to produce a disease than re-

move one.

Wrapping a garter, or fome other bandage, pretty tight about the strained part, is likewise of use. It helps to restore the proper tone of the vessels, and prevents the action of the parts from increasing the disease. It should not, however, be applied too tight. I have frequently known bleeding near the affected part have a very good essect: but what we would recommend above all, is ease. It is more to be depended on than any medicine, and seldom fails to remove the complaint*,

Of Ruptures.

CHILDREN and very old people are most liable to this discase. In the former, it is generally occasioned by excessive crying, coughing, vomiting, or the like. In the latter, it is commonly the effect of blows or violent exertions of the strength, as leaping, carrying great weights, &c. In both, a relaxed habit, indolence, and an oily or very most diet, dispose the body to this disease.

A rupture sometimes proves fatal before it is discovered. When sickness, vomiting, and obstinate costiveness give reason to suspect an obstruction of the bowels, all those places where ruptures usually happen ought carefully to be examined. The protrusion of a

^{*} Many external applications are recommended for firains, some of which do good, and others hurt. The following are such as may be used with the greatest safety, viz. Poulties made of stale beer or vinegar and oatmeal, camphorated spirits of wine, Mindererus's spirit, volatile iniment, volatile aromatic spirit diluted with a double quantity of water, and the common somentation, with the addition of brandy or spirit of wine.

very fmall part of the gut will occasion all these symptoms; and if not returned in due time, will prove mortal.

On the first appearance of a rupture in an infant, it ought to be laid upon its back, with its head very low. While in this posture, if the gut does not return of itself, it may easily be put up by gentle pressure. After it is returned, a piece of sticking-plaister may be applied over the part, and a proper truss or bandage must be constantly worn for a considerable time. The method of making and applying these rupture-bandages for children is pretty well known. The child must, as far as possible, be kept from crying, and from all violent exertions, till the rupture is quite healed.

In adults, when the gut has been forced down with great violence, or happens from any cause to be inflamed, there is often great difficulty in returning it, and sometimes the thing is impracticable without an operation; a description of which is foreign to our purpose. As I have been fortunate enough, however, always to succeed in my attempts to return the gut, without having recourse to any other means than what are in the power of every man, I shall

briefly mention the method which I generally purfue.

After the patient has been bled, he must be laid upon his back, with his head very low, and his breech raifed high with pillows. In this fituation, flannel-cloths, wrung out of a decoction of mallows and camomile flowers, or, if thefe are not at hand, of warm water, must be applied for a considerable time. A clyster made of this decoction, with a large spoonful of butter and a little falt, may be afterwards thrown up. If their should not prove successful, recourse mnst be had to pressure. If the tumour be very hard, considerable force will be necessary; but it is not force alone which succeeds here. The operator, at the fame time that he makes a preffure with the palms of his hand, must with his fingers artfully conduct the gut in by the fame aperture through which it came out. The manner of doing this can be much easier conceived that described. Should these endeavours prove ineffectual, clysters of the smoke of tobacco may be tried. These have been often known to succeed where every other method failed.

By perfifting in the use of these, and such other means as the circumstances of the case may suggest, most hernias might be reduced without an operation. Cutting for the hernia is a nice and difficult matter. I advise surgeons to try every method of returning the gut before they have recourse to the knife. I have once and again succeeded by perfevering in my endeavours, after eminent surgeons had declared the reduction of the gut impracticable without an operation*.

I would here beg leave to recommend it to every practitioner, when his patient complains of pain in the belly with oblimate costiveness, to examine the groins and every place where a rupture may happen, in order that it may be immediately reduced. By neglecting this, many

An adult, after the gut has been returned, must wear a steel bandage. It is needless to describe this, as it may always be had ready made from the artists. Such bandages are generally uneasy to the wearer for some time, but by custom, they become quite eaty. No person who has had a rupture after he arrived at man's estate, should ever be without one of these bandages.

Perfons who have a rupture, ought carefully to avoid all violent exercife, carrying great weights, leaping, running and the like. They should avoid windy aliment and strong liquors; and carefully guard

against eatching cold.

Of Cafualties.

LIFE, when to all appearance loft, may often, by due care, be restored. Accidents frequently prove fatal, merely because proper means are not used to counteract their effects. No person ought to be looked upon as killed by any accident, unless where the structure of the heart, brain, or some organ necessary to life, is evidently destroyed. The action of these organs may be so far impaired, as even to be for fome time imperceptible, when life is by no means gone. In this case, however, if the fluids be suffered to grow cold, it will be impossible to put them again in motion, even though the folids should recover their power of acting. Thus, when the motion of the lungs has been flopt by unwholesome vapour, the action of the heart, by a stroke on the breast, or the functions of the brain, by a blow on the head, if the person be suffered to grow cold, he will in all probability continue so; but if the body be kept warm, as foon as the injured part has recovered its power of acting, the fluids will again begin to move, and all the vital functions will be restored.

It is a horrid cuftom immediately to confign over to death every perfon, who, by a fall, a blow, or the like, is deprived of the appearance of life. The perfon, instead of being carried into a warm house, and laid by the fire, or put to a warm bed, is generally hurried away to a church, or a barn, or some other cold damp house, where, after a fruitless attempt has been made to bleed him, perhaps by one who knew nothing of the matter, he is given over for dead, and no further notice taken of him. This conduct seems to be the result of ignorance, supported by an ancient superstitious notion, which sorbids the body of any person killed by accident to be laid in an house that is inhabited. This conduct is contrary to all the principles of reason, humanity, and common sense.

perish who were not suspected to have had ruptures till after they were dead. I have known this happen, where half a dozen of the faculty were in attendance.

When a perfou feems to be fuddenly deprived of life, our first business is to enquire into the cause. We ought carefully to obferve whether any substance be ledged in the windpipe or gullet; and, if that is the case, attempts must be made to remove it. When unwholesome air is the cause, the patient ought immediately to be removed. He may be immersed in warm water, or rubbed with warm cloths, &c. to promote the circulation. When the cause cannot suddenly be removed, our great aim must be, to keep up the vital warmth, by rubbing the patient with hot cloths, or falt, and covering his body with warm fand, ashes, or the like.

As to those accidents, which, without immediate assistance, would often prove fatal, and the most likely means for relieving the sufferers, I have been anticipated by Dr. Tissot. I shall content myself with selecting such of his observations as seem to be the most important, and adding such of my own as have occurred

in the course of practice.

Of Substances stopt between the Mouth and Stomach.

ACCIDENTS of this kind are very common, and extremely dangerous, yet they are generally the effect of carelessies. Children should be taught to chew their food well, and to put nothing into their mouths which it would be dangerous for them to swallow. But children are not the only persons guilty of this imprudence; many adults put pins, nails, and other sharp-pointed substances in their mouths upon every eccusion, and some even sleep with the former there all night: a fit of coughing, or twenty other accidents, may force over the substance before the person is aware*.

When any substance is detained in the gullet, there are two ways of removing it, viz. either by extracting it, or pushing it down.— The safest and most certain way is to extract it; but this is not always the easiest; it may be more eligible sometimes to thrust it down, especially when the obstructing body is of such a nature, that there is no danger from its reception into the stomach. The substances, which may be pushed down without danger, are all common nourishing ones, as bread, slesh, fruits, and the like. All indigestible bodies, as cork, wood, bones, pieces of metal, and such-like, ought, if possible, to be extracted, especially if these bodies be sharp pointed, as pins, needles, sish-bones, bits of glass, &c.

- When fuch fubstances have not passed in too deep, we should endeavour to extract them with our singers, which method often

^{*} A woman, in one of the hospitals of this city, lately discharged a great number of pins, which she had swallowed in the course of her business, through an ulcer in her side.

fucceeds. When they are lower, we must make use of nippers, or a small pair of forceps, such as surgeons use. But this attempt to extract rarely fucceeds, if the fubiliance be of a flexible nature, and

has descended far into the gullet.

If the fingers and nippers fail, or cannot be duly applied, crot. shets, a kind of hooks must be employed. These may be made at once, by bending a piece of pretty strong iron-wire at one end. It must be introduced in the flat way; and, for the better conducting it, there should likewife be a curve or bending, at the end it is held by, to serve as a kind of handle to it; which has this further use, that it may be secured by a string tied to it, a circumstance not to be omitted in any instrument employed on such occasions, to avoid fuch ill accidents as have fometimes enfued from these instruments flipping out of the operator's hand. After the crotchet has passed below the substance that obstructs the passage, it is drawn up again, and hooks up the body along with it. The crotchet is also very convenient, when a fubstance, somewhat slexible, as a pin or sishbone, sticks across the gullet, the hook, in such cases, seizing them about their middle part, crooks, and thus difengages them; or, if

they are very brittle fubstances, serves to break them.

When the obstructing bodies are small, and only stop up a part of the paffage, and which may either eafily elude the hook, or straiten it by their refistance, a kind of rings, made either of wire, wool, or filk, may be used. A piece of fine wire, of a proper length, may be bent into a circle, about the middle, of about an inch diameter, and the long unbent fides brought parallel, and near each other: These are to be held in the hand, and the circular part or ring introduced into the gullet, in order to be conducted about the obstructing body, and so to extract it. More flexible rings may be made of wool, thread, filk, or finall pack-thread, which may be waxed, for their greater strength and confistence. One of these is to be tied fast to a handle of iron-wire, whale-bone, or any kind of flexible wood, and by this means introduced, in order to furround the obstructing substance, and to draw it out. Several of these rings, passed through one another, may be used, the more certainly to lay hold of the obstructing body, which may be involved by one, if another should miss it. These rings have one advantage, which is, that when the fubstance to be extracted, is once laid hold of, it may then, by turning the handle, be retained fo strongly in the ring thus twifted, as to be moved every way, which must, in many cases, be a considerable advantage.

A material employed on these occasions is the sponge. Its preperty of fwelling confiderably on being wet, is the principal foundation of its usefulness here. If any substance is stopt in the gullet, but without filling up the whole passage, a bit of sponge may be introduced into that part which is unflopt, and beyond the substance. The sponge soon dilates, and grows larger in this moist situation; and, indeed, the enlargement of it may be forwarded, by making the patient swallow a sew drops of water. Afterwards it is to be drawn back, by the handle to which it is fastened, and as it is now too large to return through the small cavity by which it was conveyed in, it draws out the obstructing body along with it.

The compressibility of sponge is another foundation of its usefulness in such cases. A pretty large piece of sponge may be compressed or squeezed into a small size, by winding a string of tape closely about it, which may be easily unwound, and withdrawn, after the sponge has been introduced. A bit of sponge may likewise be compressed, by a piece of whale-bone split at one end; but this can hardly be introduced in such a manner as not to hurt the patient.

I have often known pins, and other fharp bodies, which had fluck in the throat, brought up, by causing the person to swallow a bit of tough meat tied to a thread, and drawing it quickly up again. This is safer than swallowing sponge, and will often answer the

purpose equally well.

When all these methods prove unsuccessful, there remains one more, which is, to make the patient vomit: but this can scarcely be of any service, unless when such obstructing bodies are simply engaged in, and not hooked or stuck into the sides of the gullet; as in this case, vomiting might occasion some further mischies. If the patient can swallow, vomiting may be excited by taking half a drachm or two scruples of ipecacuanha in powder, made into a draught. If he is not able to swallow, an attempt may be made to excite vomiting, by tickling his throat with a feather; and, if that should not succeed, a clyster of tobacco may be administered. It is made by boiling an ounce of tobacco in a sufficient quantity of water: this has often been found to succeed, when other attempts to excite vomiting had failed.

When the obstructing body is of such a nature, that it may with safety be pushed downwards, this may be attempted by means of a wax-candle oiled, and a little heated, so as to make it slexible; or a piece of whale-bone, wire, or slexible wood, with a sponge saf-

tened to one end.

Should it be impossible to extract even those bodies which it is dangerous to admit into the stomach, we must prefer the least of two evils, and rather run the hazard of pushing them down, than suffer the patient to perish in a few minutes; and we ought to scruple this resolution the less, as a great many instances have happened, where the swallowing of such hurtful and indigestible substances has been followed by no diforder.

Whenever it is manifest, that all endeavours to extract or push down the substance must prove inessectual, they should be discontinued; because the instammation, occasioned by persisting in them, might be as dangerous as the obstruction itself. Some have died

in consequence of the inflammation, even after the body which

caused the obstruction had been entirely removed.

While the means recommended above are used, the patient should often swallow, or, if he cannot, he should frequently receive, by injection, through a crooked tube or pipe that may reach down to the gullet, some emollient liquor, as warm milk and water, barley-water, or a decoction of mallows. Injections of this kind not only soften and sooth the irritated parts, but, when thrown m with sorce, are often more successful in loosening the obstruction than all attempts with instruments.

When, after all our endeavours, we are obliged to leave the obftructing body in the part, the patient must be treated as if he had an inflammatory disease. He should be bled, kept upon a low diet, and have his whole neck surrounded with emollient poultices. The like treatment must also be used, if there be any reason to suspect an inflammation of the passages, though the obstructing body be re-

moved.

A proper degree of agitation has fometimes loosened the inhering body more effectually than inftruments. Thus, a blow on the back has often forced up a substance which stuck in the gullet; but this is still more proper and esfectious, when the substance gets into the wind-pipe. In this case, vomiting and sneezing are likewise to be excited. Pins, which stuck in the gullet, have been frequently discharged, by riding on horse-back, or in a carriage.

When any indigestible substance has been forced down into the stomach, the patient should use a very mild and smooth diet, consisting chiefly of fruits and farinaceous substances, as puddings, pottage, and soups. He should avoid all heating and irritating things, as wine, punch, pepper, and such-like; and his drink

should be milk and water, barley-water, or whey.

When the gullet is so strongly and fully closed, that the patient can receive no food by the mouth, he must be nourished by clys-

ters of foup, jelly, and the like.

When the patient is in danger of being immediately suffocated, and all hope of freeing the passage is vanished, so that death seems at hand, if respiration be not restored, the operation of bronchotomy, or opening of the wind-pipe, must be directly performed. As this operation is neither difficult to an expert surgeon, nor very painful to the patient, and is often the only method which can be taken to preserve life in these emergencies, we mention it, but it should only be attempted by persons skilled in surgery.

Of Drowned Persons.

WHEN a person has remained above a quarter of an hour under water, there can be no considerable hopes of his recovery. But as several circumstances may happen to have continued life, in such an unfortunate situation, beyond the ordinary term, we should never too soon resign the unhappy object to his sate, but try every method for his relief, as there are many well attested proofs of the recovery of persons to life and health, who had been taken out of the water, apparently dead, and who remained a considerable time

without exhibiting any figns of life.

The first thing to be done, after the body is taken out of the water, is, to convey it, as soon as possible, to some convenient place, where the necessary operations for its recovery may be performed. In doing this, care must be taken not to bruise or injure the body, by carrying it in any unnatural posture, with the head downwards, or the like. If an adult body, it ought to be laid on a bed, or on straw, with the head a little raised, and carried on a cart or on men's shoulders, and kept in as natural and easy a position as possible. A small body may be carried in the arms.

In attempting to recover persons apparently drowned, the principal intention to be pursued is, to restore the natural warmth, upon which all the vital functions depend; and to excite these functions by the application of stimulants, not only to the skin, but likewise

to the lungs, &c.

Though cold was by no means the cause of the person's death, yet it will prove an effectual obstacle to his recovery. For this reason, after stripping him of his wet clothes, his body must be wiped dry, and placed between two blankets, made warm, with the head a little elevated; and no more attendance admitted than

are absolutely necessary to execute these directions.

To renew the breathing, a strong person may blow his own breath into the patient's mouth, with all the force he can, holding his nostrils at the same time. When it can be perceived, by the rising of the chest or belly, that the lungs are filled with air, the person ought to desist from blowing, and should press the breast and belly, so as to expel the air again; and this operation may be repeated for some minutes, alternately inslating and depressing the lungs, so as to imitate natural respiration.*

If the lungs cannot be inflated in this manner, it may be attempted by blowing through one of the nostrils, and at the same

^{*} Every time the lungs are expanded, electricity should be applied, if a machine can be obtained. This is most effectually done about the region of the heart, or between the fourth and sifth ribs. The shocks should be frequently repeated, in order to stimulate the heart to action.

time, keeping the other close. Dr. Monro, for this purpose, recommends a wooden pipe, sitted at one end for silling the nostril, and at the other for being blown into by a person's mouth, or for receiving the pipe of a pair of bellows, to be employed for the same purpose, if necessary.*

When air cannot be forced into the cheft by the mouth or nofe, it may be necessary to make an opening into the wind-pipe for this purpose. It is needless, however, to spend time in describing this operation, as it should not be attempted unless by persons skilled in

furgery.

The body should now be rubbed with coarse linen cloths, made warm, and as foon as fome warm falt, fand, ashes, grains, or fuellike, can be procured, they should be diligently used with friction to every part of the body. Strong volatile spirits should be frequently applied to the nose, and stimulating powders, as that of tobacco, may be blown up the nostrils. + Tiffet mentions an instance of a girl who was restored to life, after she had been taken out of the water, fwelled, bloated, and, to all appearance dead, by laying her naked upon hot ashes, covering her with others equally hot, putting a bonnet round her head, and a stocking round her neck stuffed with the same, and heaping coverings over all. After she had remained half an hour in this fituation, her pulse returned, she recovered speech, and cried out, I freeze, I freeze; a little cherrybrandy was given her, and she remained buried, as it were, under the ashes for eight hours; afterwards she was taken out, without any other complaint except that of laffitude or wearinefs, which went off in a few days. The Doctor mentions, likewise, an instance of a man who was restored to life, after he had remained six hou's under water, by the heat of a dunghill.

Till the patient shews some signs of life, and is able to swallow, it would be useless and even dangerous to pour liquors into his mouth. His lips, however, and tongue, may be frequently wet with a feather dipt in warm brandy or other strong spirits; and, as soon as he has recovered the power of swallowing, a little warm wine, or some other cordial, ought, every now and then, to be ad-

ministered.‡

Some recommend a vomit after the patient is a little re-animated; but if he can be made to puke, without the fickening draught, it

* This can be effected with more certainty by introducing a large flexible tube or catheter, perfectly open at both extremities, into the wind-pipe, and fixing the pipe of a beliews to the outer end. This mode of inflating the lungs has the advantage over that advised by our judicious author, by expanding the lungs without differding the flomach.

† This practice must be perfished in as long as there is the most distant prospect of returning life. [I. C.]

† Bleeding, purging, and even clystering, before and after signs of life appear, must be employed with extreme caution, and never without the advice of a physician.

[I. C.]

will be more fafe: this may generally be done by tickling the throat and fauces with an oiled feather, or fome other foft subfrance, which will not injure the parts. Tiffot, in this case, recommends the oxymel of squills, a table-spoonful of which, diluted with water, may be given every quarter of an hour, till the patient has taken five or fix doses. Where that medicine is not at hand, a strong infusion of sage, camomile-slowers, or carduus benedicius, sweetened with honey, or some warm water, with the addition of a little salt, may, he says, supply its place. The Doctor does not intend that any of these things should be given in such quantity as to occasion vomiting. He thinks emetics, in this situation, are not expedient.

We are by no means to discontinue our affistance as soon as the patients discover some tokens of life, since they sometimes expire after these first appearances of recovering. The warm and stimulating applications are still to be continued, and small quantities of some cordial liquor ought frequently to be administered. Lately, though the person should be manifestly re-animated, there sometimes remain an oppression, a cough, and severishness, which effectually constitute a disease. In this case, it will be necessary to bleed the patient in the arm, and to cause him to drink plentifully of barley-water, older-slower tea, or any other soft pectoral in-

fusions.

Such persons as have the misfortune to be deprived of the appearances of life, by a fall, a blow, fuffocation, or the like, must be treated nearly in the fame manner as those who have been, for some time, under water. I once attended a patient who was so stunned, by a fall from a horse, that, for above six hours, he fearcely exhibited any figns of life; yet this man, by being bled, and proper methods taken to keep up the vital warmth, recovered, and, in a few days, was perfectly well. Dr. Alexander gives an instance to the same purpose, in the Edinburgh Physical and Literary Essays, of a man who was, to all appearance, killed by a blow on the breast, but recovered upon being immersed, for some time, in warm water. These, and other instances of a similar nature, which might be adduced, amount to a full proof of this fact, that many of those unhappy persons who loose their lives by falls, blows, and other accidents, might be faved by the use of proper means duly perfifted in.

Of Noxious Vapours.

AIR may be many ways rendered noxious, or even destructive to animals. This may either happen from its vivifying principle being destroyed, or from subtle exhalations with which it is impregnated. Thus air that has passed through burning suel is nei-

ther capable of supporting fire nor the life of animals. Hence the danger of sleeping in close chambers, with charcoal fires. Some, indeed, suppose the danger here proceeds from the suspense oil contained in the charcoal, which is set at liberty and diffused all over the chamber; while others imagine it is owing to the air of the room being charged with phlogiston. Be this as it may, it is a fituation carefully to be avoided. Indeed, it is dangerous to sleep in a small apartment with a fire of any kind. I lately saw four persons, who had been sufficed by sleeping in an apartment where a small fire of coal had been left burning.

The vapour which exhales from wine, cyder, beer, or other liquors, in the state of fermentation, contains something poisonous, which kills, in the same manner, as the vapour of coal. Hence, there is always danger in going into cellars where a large quantity of these liquors is in a state of fermentation, especially if they have been close thut up for some time. There have been many instances of persons struck dead on entering such places, and of others who

have with difficulty escaped.

When fubterraneous eaves, that have been very long flut, are opened, or when deep wells are cleaned, which have not been emptied for feveral years, the vapours arising from them produce the fame effects. For this reason, no person ought to venture into a well, pit, cellar, or any place that is damp, and has been long shut up, till the air has been sufficiently purified, by burning gunpowder in it. It is easy to know when the air of such places is unwholesome, by letting down a lighted candle, throwing in burning suel, or the like. If these continue to burn, people may safely venture in; but where they are suddenly extinguished, no one ought to enter till the air has been first purished by fire.

The offensive stink of lamps and of candles, especially when their slames are extinguished, operate like other vapours, though with less violence, and less suddenly. There have, however, been instances of people killed by the sumes of lamps which had been extinguished in a close chamber, and persons of weak delicate breasts generally find themselves quickly oppressed in apartments

illuminated with many candles.

Such as are fensible of their danger in these situations, and retreat seasonably from it, are generally relieved as soon as they get into the open air, or, if they have any remaining uneasiness, a little water and vinegar, or lemonade, drank hot, assords them relief. But when they are so far poisoned, as to have lost their seeling and understanding, the sollowing means must be used for their recovery:

The patient should be exposed to a very pure, fresh, and open air; and volatile salts, or other stimulating substances, held to his nose. He should next be bled in the arm, or if that does not succeed, in the neck. His legs ought to be put into warm water, and well rubbed. As soon as he can swallow, some lemonade, or wa-

ter and vinegar, with the addition of a little nitre, may be given him.

Sharp clyfters may be made, by adding to the common clyfter, fyrup of buckthorn and tincture of fenna, of each two ounces; or, in their flead, half an ounce of Venice turpentine diffolved in the yolk of an egg. Should thefe things not be at hand, two or three large fpoonfuls of common falt may be put into the clyfter. The fame means, if necessary, which were recommended in the former part of this chapter, may be used to restore the circulation, warmth, &c.

Mr. Toffach, furgeon at Alloa, relates the case of a man suffocated by the steam of burning coal, whom he recovered by blowing his breath into the patient's mouth, bleeding him in the arm, and causing him to be well rubbed and tossed about. And Dr. Frewen, of Sussex, mentions the case of a young man who was stupisfied by the smoke of sea-coal, but was recovered by being plunged into cold water, and afterwards laid in a warm bed.

The practice of plunging perfons fuffocated by noxious vapours in cold water, would feem to be fupported by the common experiment of fuffocating dogs in the grotto del cani, and afterwards recovering them, by throwing them into the neighbouring lake.

Effects of extreme Cold.

WHEN cold is extremely fevere, and a perfon is exposed to it for a long time, it proves mortal, in confequence of its stopping the circulation in the extremities, and forcing too great a proportion of blood towards the brain; so that the patient dies of a kind of apoplexy, preceded by great sleepines. The traveller, in this situation, who finds himself begin to grow drowsy, should redouble his efforts to extricate himself from the imminent danger he is exposed to. This sleep, which he might consider as some alleviation of his sufferings, would, if indulged, prove his last.

Such violent effects of cold are not common in this country; it frequently happens, however, that the hands or feet of travellers are so benumbed or frozen, as to be in danger of a mortification, if proper means are not used to prevent it. The chief danger in this situation arises from the sudden application of heat. It is very common, when the hands or feet are pinched with cold, to hold them to the fire; yet reason and observation show, that this is a most dangerous and imprudent practice.

If frozen meat, fruits, or roots of any kind, be brought near the fire, or put into warm water, they will be destroyed, by rottenness, or a kind of mortification; and the only way to recover them, is

to immerse them, for some time, in very cold water. The same observation holds with regard to animals in this condition.

When the hands or feet are greatly benumbed with cold, they ought either to be immerfed in cold water, or rubbed with fnow, till they recover their natural warmth and fensibility: after which, the perfon may be removed into an apartment a little warmer, and may drink fome cups of tea, or an infusion of elder-flowers sweetened with honey. Every perfon may observe, when his hands were even but slightly affected with cold, that the best way to warm them was by washing them in cold water, and continuing to rub them well for some time.

When a person has been so long exposed to the cold, that all appearances of life are gone, it will be necessary to rub him all over with snow or cold water; or, what will answer better, to immerse him in a bath of the very coldest water. There is the greatest encouragement to persist in the use of these means, as we are affured that persons who had remained in the snow, or had been exposed to the freezing air during sive or six successive days, and who had discovered no marks of life for several hours, have, nevertheless, been revived.

I have always thought, that the whitloes, kibes, chilblains, and other inflammations of the extremities, which are so common among the peasants, in the cold season, were chiefly occasioned by their sudden transitions from cold to heat. After they have been exposed to an extreme degree of cold, they immediately apply their hands and feet to the fire, or, if they have occasion, plunge them into warm water; by which means, if a mortification does not happen, an inflammation seldom fails to ensue. Most of the ill consequences from this quarter might be easily avoided, by only observing the precautions mentioned above.

The Effects of extreme Heat

ARE no less fatal, and much more sudden than those of cold-In hot countries, people frequently drop down dead in the streets, exhausted with heat and fatigue. In this case, if any warm cordial can be poured into the mouth, it ought to be done. If this cannot be effected, they may be thrown up in form of a clyster. Volatile spirits, and other things of a stimulating nature, may be applied to the skin, which should be well rubbed with a slesh-brush, a coarse cloth, or other stimulating things.

Effects of Drinking Cold Water in Warm Weather.

WE have opportunities almost every summer, of observing the deleterious effects of cold water on the labouring part of our inhabitants, and in particular on foreigners newly arrived in this country, who are unacquainted with the danger, which commonly enfue, from swallowing large draughts of cold water, when the body is heated from exercise or labour.

This fluid should never be drank cold in a warm day, even when mixed with spirits, or any other liquor, as it is always accompanied with imminent danger, which frequently manifelts itself during the time of drinking, or immediately after; when the patient is feized with vertigo, dimness of fight, violent pain, and cramp in the stomach, and sometimes will fall down at the pump, or stagger away to throw himself down in the shade. There he becomes restless, and tosses about in excruciating pain, attended with difficulty of breathing, retraction of the navel, the face suffused and turged with blood, nausea, and violent efforts to vomit. As the disease advances, the vigour declines, and the patient, if not relieved foon, exhibits the phænomena of dying. The breathing becomes more interrupted and laborious, the cheeks and nostrils expand at every expiration, with a rattling noise in the throat: The face at times looks pale and deadly, the patient becomes delirious, and the tone of the voice much altered; the extremities cold, pulse quick, and almost imperceptible at the wrist, with an impossibility to swallow. At length, death takes place in a short time from the attack.

MEDICINE.—The chief remedies in this complaint, are bleeding, and large doses of laudanum. If the pulse is full and strong, with a stushed appearance of the face, twelve or fourteen ounces of blood should be taken from the arm, in order to relieve the difficulty of breathing, and diminish the flow of blood to the head; during this evacuation, forty or fifty drops of laudanum, or a quantity proportioned to the age of the patient, should be administered, and in half an hour, a smaller or larger dose must be repeated, according to the urgency of the fymptoms. If laudanum cannot be procured, three or four ounces of rum or brandy may be substituted. If the patient cannot fwallow, a tube, or a flexible catheter should be passed down the ofophagus or gullet, and the laudanum or brandy poured through it into the stomach. When this operation cannot be performed, clysters of warm water with laudanum, must be injected. These remedies frequently fucceed, particularly if they are applied early

in the complaint.

When affiltance is called, and the powers of life appear suspended, every means must be exerted to restore them, as directed in the chapter drowning.

CHAPTER LYI.

Of Fainting Fits, and other Cases which require immediate

Assistance.

TRONG and healthy persons, who abound with blood, are often seized with sudden fainting sits, after violent exercise, drinking freely of warm, or strong liquors, exposure to great heat,

intense application to study, or the like.

In fuch cases, the patient must be made to smell to some vinegar. His temples, forehead, and wrists ought, the same time, to be bathed with vinegar, mixed with an equal quantity of warm water; and two or three spoonfuls of vinegar, with sour or sive times as much water, may, if he can swallow, be poured into his mouth.

If the fainting proves obstinate, or degenerates into an abolition of feeling and understanding, the patient must be bled. After the bleeding, a clyster will be proper, and then he should be kept easy and quiet, only giving him every half hour a cup or two of an insusion of any mild vegetable, with the addition of a little sugar and vinegar.

When fwoonings, which arise from this cause, occur frequently in the same person, he should, in order to escape them, confine himfelf to a light diet, consisting chiefly of bread, fruits and other vegetables. His drink ought to be water or small beer. He should sleep

but moderately, and take much exercise.

But fainting fits proceed much oftener from a defect than an excess of blood. They are ready to happen after great evacuations of any kind, obstinate watching, want of appetite, or such-like. In these, an almost directly opposite course to that mentioned above, must be

purfued.

The patient should be laid in bed, with his head low, and being covered, should have his legs, thighs, arms, and his whole body, rubbed strongly with hot slannels. Hungary water, volatile salts, or strong smelling herbs, as rue, mint, or rosemary, may be held to his nose. His mouth may be wet with a little rum or brandy; and, if he can swallow, some hot wine, mixed with sugar and cinnamon, which is an excellent cordial, may be poured into his mouth. A compress of slannel dipt in hot wine or brandy, must be applied to the pit of his stomach, and warm bricks, or bottles filled with hot water, laid to the feet.

As foon as he recovers a little, he should take some strong soup or broth, or a little bread or biscuit soaked in hot-spiced wine. To prevent the return of the sits, he ought to take often, but in small quantities, some light, yet strengthening nourishment, as panado made with soup instead of water, new laid eggs, lightly poached,

chocolate, light roaft-meats, jellies, and fuch-like.

Fainting-fits, which are the effect of bleeding, or of the violent operation of purges, belong to this class. Such as happen after artificial bleeding, generally terminate as foon as the patient is laid upon the bed; indeed, persons subject to this kind, should always be bled lying, in order to prevent it. Should the fainting, however, continue longer than usual, volatile spirits may be held to the nose, and rubbed on the temples, &c.

When fainting is the effect of too strong or acrid purges or vomits, the patient must be treated, in all respects, as if he had taken a poison. He should be made to drink plentifully of milk, warm-water, and oil, barley-water, or such-like; emollient clysters will be proper, and his strength should afterwards be recruited, by giving him generous cordials, and anodyne medicines.

Faintings are often occasioned by indigestion. This may either proceed from the quantity or quality of the sood. When the former of these is the cause, the cure will be best performed by vomiting, which may be promoted by causing the patient to drink a weak insusion of camomile-slowers, carduus benedictus, or the like. When the disorder proceeds from the nature of the sood, the patient, as in the case of weakness, must be revived by strong smells, &c. after which he should be made to swallow a large quantity of light, warm sluid, which may serve to drown the offending matter, to soften its acrimony, and either to esset a discharge of it by womiting, or force it down into the intestines.

Even difagreeable fmells will fornetimes occasion fwooning, especially in people of weak nerves. When this happens, the patient should be carried into the open air, have stimulating things held to his nose, and those substances, which are difagreeable to him, ought immediately to be removed. We have already taken

notice of fwoonings which arise from nervous disorders.

Fainting-fits often happen in the progress of diseases. In the beginning of putrid diseases they generally denote an oppression at stomach, or a mass of corrupted humours, and they cease after evacuations either by vomit or stool. When they occur at the beginning of malignant severs, they indicate great danger. In each of these cases, vinegar used both externally and internally is the best remedy during the paroxysm, and plenty of lemon-juice and water after it. Swoonings which happen in diseases accompanied with great evacuations, must be treated like those which are owing to weakness, and the evacuations ought to be restrained. When they happen towards the end of a violent sit of an intermitting sever, or at that of each exacerbation of a continual sever, the patient must be supported by small draughts of wine and water.

Delicate and hysteric women are very liable to swooning or fainting-fits after delivery. These might be often prevented, by generous cordials, and the admission of fresh air. When they are occasioned by excessive slooding, it ought, by all means, to be restrained. They are generally the effect of mere weakness or ex-

haustion. Dr. Engleman relates the case of a woman in child-bed, "who, after being happily delivered, suddenly fainted, and lay upwards of a quarter of an hour apparently dead. A physician was sent for; her own maid, in the meanwhile, being out of patience at his delay, attempted to assist her her's, blew in as much breath as she possibly could, and in a very short time the exhausted woman awaked as out of a profound sleep; when proper things being given her, she soon recovered. The maid being asked how she came to think of this expedient, said she had seen it practised at Altenburgh, by midwives, upon children, with the happiest effect."

We mention this case, chiefly, that other midwives may be induced to follow so laudable an example. Many children are born without any signs of life, and others expire soon after the birth, who might, without all doubt, by proper care, be restored to life.

From whatever cause fainting-fits proceed, fresh air is always of the greatest importance to the patient. By not attending to this circumstance, people often kill their friends while they are endeavouring to save them. Alarmed at the patient's situation, they call in a crowd of people to his assistance, or perhaps to witness his exit, whose breathing exhausts the air, and increases the danger. There is not the least doubt, but this practice, which is very common among the lower fort of people, often proves satal, especially to the delicate, and such persons as fall into fainting-fits from mere exhaustion, or the violence of some disease. No more persons ought ever to be admitted into the room where a patient lies in a swoon, than are absolutely necessary for his assistance, and the windows of the apartment should always be opened, at least as far as to admit a stream of fresh air.

Persons subject to frequent swoonings or fainting-fits, should neglect no means to remove the cause of them as their consequences are always injurious to the constitution. Every fainting-fit leaves the person in dejection and weakness; the secretions are thereby suspended, the humours disposed to stagnation, coagulations and obstructions are formed, and if the motion of the blood be totally intercepted, or very considerably checked, polypuses are sometimes formed in the heart or larger vessels. The only kind of swoonings not to be dreaded, are those which sometimes mark the crisis in severs; yet even these oughts, as soon as possible, to be re-

moved.

Of Intoxication.

THE effects of intoxication are often fatal. No kind of poison kills more certainly than an over-dose of ardent spirits. Sometimes, by destroying the nervous energy, they put an end to life at once; but in general, their effects are more slow, and in many respects, similar to those of opium. Other kinds of intoxicating liquors may prove fatal when taken to excess, as well as ardent spirits; but they may generally be discharged by vomiting, which ought always to

be excited when the stomach is overcharged with liquor.

More of those unhappy persons, who die intoxicated, lose their lives from an inability to conduct themselves, than from the destructive quality of the liquor. Unable to walk, they tumble down, and lie in some awkward posture, which obstructs the circulation or breathing, and often continue in this situation till they die. No drunk person should be left by himself, till his clothes have been loosened, and his body laid in such a posture as is most favourable for continuing the vital motions, discharging the contents of the stomach, &c. The best posture for discharging the contents of the stomach is, to lay the person upon his belly; when asleep, he may be laid on his side, with his head a little raised, and particular care must be taken that his neck be no way bent, twisted, or have any thing too tight about it.

The excellive degree of thirst occasioned by drinking strong liquors, often induces people to quench it by taking what is hurtful. I have known fatal consequences from drinking freely of milk after a debauch of wine or four punch: these acid liquors, together with the heat of the stomach, having coagulated the milk, in such a manner, that it could never be digested. The safest drink after a debauch is, water with a toast, tea, insusions of balm, sage, barleywater, and such-like. If the person wants to vomit, he may drink a weak insusion of camomile-slowers, or lukewarm water and oil; but, in this condition, vomiting may generally be excited by only

tickling the throat with the finger or a feather.

Instead of giving a detail of all the different symptoms of intoxication which indicate danger, and proposing a general plan of treatment for persons in this situation, I shall briefly relate the history of a case which lately fell under my own observation, wherein most of those symptoms usually reckoned dangerous concurred, and

where the treatment was fuccefsful.

A young man, about fifteen years of age, had, for a hire, drank ten glaffes of strong brandy. He soon after fell alleep, and continued in that situation for near twelve hours, till at length, his uneasy manner of breathing, the coldness of the extremities, and other threatening symptoms, alarmed his friends, and made them send for me. I found him still sleeping, his countenance ghastly, and his

fkin covered with a cold, clammy fweat. Almost the only signs of life remaining, were, a deep laborious breathing, and a convulsive

motion or agitation of his bowels.

I tried to rouse him, but in vain, by pinching, shaking, applying volatile spirits, and other stimulating things to his nose, &c. A sew ounces of blood were likewise taken from his arm, and a mixture of vinegar and water was poured into his mouth; but, as he could not swallow, very little of this got into the stomach. None of these things having the least effect, and the danger seeming to increase, I ordered his legs to be put into warm water, and a sharp clyster to be immediately administered. This gave him a stool, and was the first thing that relieved him. It was afterwards repeated with the same happy effect, and seemed to be the chief cause of his recovery. He then began to shew some signs of life, took drink when it was offered him, and came gradually to his senses. He continued, however, for several days weak and severish, and complained much of a foreness in his bowels, which gradually went off, by a slender diet, and cool mucilaginous liquors.

This young man would probably have been suffered to die without any assistance being called, had not a neighbour, a few days before, who had been advised to drink a bottle of spirits to cure him

of an ague, expired under very fimilar circumstances.



Suffocation and Strangling

MAY fometimes proceed from an infraction of the lungs, produced by vifcid, clammy humours, or a fpafmodic affection of that organ. Persons who feed grossly, and abound in rich blood, are very liable to suffocating fits from the former of these causes. Such ought, as soon as they are attacked, to be bled, to receive an emollient clyster, and to take frequently, a cup of diluting liquor with a little nitre in it. They should likewise receive the streams of

hot vinegar into their lungs by breathing.

Nervous and afthmatic persons are most subject to spasmodic affections of the lungs. In this case, the legs should be immersed in warm water, and the steams of vinegar applied as above. Warm diluting liquors should likewise be drank; to a cup of which, a tea-spoonful of the paregoric elixir may occasionally be added. Burnt paper, feathers, or leather, may be held to the patient's nose, and fresh air should be freely admitted to him. Infants are often suffocated by the carelessness or inattention of their nurses*. An in-

^{*} These accidents are not always the effects of carelessness. I have known an infant over-laid by its mother being seized in the night with an hysteric st. This ought to serve as a caution again? employing hys-

fant, when in bed, should always be laid so, that it cannot tumble down with its head under the bed-clothes; and, when in a cradle, its face ought never to be covered. A small degree of attention to these two simple rules would save the lives of many infants, and prevent others from being rendered weak and sickly all their lives, by injuries done to their lungs.

Instead of laying down a plan for the recovery of infants who are sufficiently or overlaid by the nurses, I shall give the history of a case related by Monsieur Janin, of the Royal College of Surgery at Paris, as it was attended with success, and contains almost every

thing that can be done on fuch occasions.

A nurse having had the misfortune to over-lay a child, he was called in, and found the infant without any figns of life; no pulfation in the arteries, no respiration, the face livid, the eyes open, dull, and tarnished, the nose full of snivel, the mouth gaping; in short, it was almost cold. Whilst some linen cloths and a parcel of ashes were warming, he had the boy unswathed, and laid him in a warm bed, and on the right fide. He then was rubbed all over with fine linen, for fear of fretting his tender and delicate skin. As soon as the ashes had received their due degree of heat, Mr. Jania burried him in them, except the face, placed him on the fide oppofite to that on which he had been at first laid, and covered him with a blanket. He had a bottle of eau de luce in his pocket, which he prefented to his nose from time to time; and between whiles, some puffs of tobacco were blown up his nostrils: to these succeeded the blowing into his mouth, and fqueezing tight his nofe. Animal heat began to be excited gradually; the pulfations of the temporal artery were foon felt, the breathing became more frequent and free, and the eyes closed and opened alternately. At length, the child fetched some cries, expressive of his want of the breast, which being applied to his mouth, he catched at it with avidity, and fucked as if nothing had happened to him. Though the pulfations of the arteries, were, by this time, very well re-established, and it was hot weather, yet Mr. Janin thought it advisable to leave his little patient three-quarters of an hour longer under the asses. He was afterwards taken out, cleaned, and dressed as usual; to which a gentle fleep fucceeded, and he continued perfectly well.

Mr. Janin mentions, likewise, an example of a young man who had hanged himself through despair, to whom he administered

help, as effectually as in the preceding case.

Mr. Glover, furgeon in Doctors Commons, London, relates the case of a person who was restored to life after twenty-nine minutes hanging, and continued in good health for many years after.

The principal means used to restore this man to life, were, opening the temporal artery, and the external jugular; rubbing the

teric women as nurses; and should likewise teach such women, never to lay an infant in the same bed with themselves, but in a small adjacent one.

back, mouth, and neck, with a quantity of volatile spirits and oil; administering the tobacco clyster, by means of lighted pipes, and strong frictions of the legs and arms. 'This course had been continued for about four hours, when an incision was made into the wind-pipe, and air blown strongly through a canula into the lungs. About twenty minutes after this, the blood at the artery began to run down the sace, and a slow pulse was just perceptible at the wrist. The frictions were continued for some time longer; his pulse became more frequent, and his mouth and nose being irritated with spirit of sal ammoniac, he opened his eyes. Warm cordials were then administered to him, and in two days, he was so well, as to be able to walk eight miles.

Of Persons falling into Convulsion Fits.

THESE often constitute the last scene of acute or chronic disorders. When this is the case, there can remain but small hopes of the patient's recovery after falling into a fit. But when a person, who appears to be in persect health, is suddenly seized with a convulsion fit, and seems to expire, attempts ought to be made to restore him to life. Infants are most liable to convulsions, and are often carried off very suddenly, by one or more fits about the time of teething. There are many well-authenticated accounts of infants having been restored to life, after they had, to all appearance, expired in convulsions; but we shall only relate the following instance, mentioned by Dr. Johnson, in his pamphlet on the practical

eability of recovering persons visibly dead.

In the parish of St. Clements in Colchester, a child of fix months old, lying upon its mother's lap, having had the breaft, was feized with a strong convulsion fit, which lasted so long, and ended with fo total a privation of motion in the body, lungs, and pulse, that it was deemed absolutely dead. It was stripped, laid out, the passing-bell ordered to be tolled, and a coffin to be made: but a neighbouring gentlewoman, who used to admire the child, hearing of its fudden death, haftened to the house, and upon examining, found it not cold, its joints limber, and fancied, that a glass she held to its mouth and nose was a little damped with the breath; upon which she took the child in her lap, sat down before the fire, rubbed it, and kept it in gentle agitation. In a quarter of an hour she felt the heart begin to beat faintly; she then put a little of the mother's milk into its mouth, continued to rub its palms and foles, found the child begin to move, and the milk was fwallowed; and in another quarter of an hour, she had the satisfaction of restoring, to its disconsolate mother, the babe quite recovered, eager to lay hold of the breast, and able to suck again.

thild throve, had no more fits, is grown up, and at present alive. These means, which are certainly in the power of every person, were sussent to restore to life, an infant to all appearance dead, and who, in all probability, but for the use of these simple endeavours, would have remained so. There are many other things which might be done in case the above should not succeed; as rubbing the body with strong spirits, covering it with warm ashes or salt, blowing air into the lungs, throwing up warm stimulating clysters, or the smoke of tobacco, into the intestines, and such-like.

When children are dead-born, or go off in a fit foon after the birth, the fame means ought to be used for their recovery, as in circumstances similar to those mentioned above. These directions may likewise be extended to adults, attention being always paid

to the age and other circumstances of the patient.

The foregoing cases and observations afford sufficient proof of the success which may attend the endeavours of persons totally ignorant of medicine, in assisting those who have life suspended by an accident or disease. Many facts of a similar nature might be adduced, were it necessary; but these, it is hoped, will be sufficient to call up the attention of the public, and to excite the humane and benevolent, to exert their utmost endeavours for

the prefervation of their fellow men.

The Society for the recovery of drowned persons, instituted at Amfterdam, in the year 1767, had the satisfaction to find that 150 persons, in the space of sour years, had been saved by the means pointed out by them, many of whom owed their preservation to peasants, and people of no medical knowledge. But the means used with so much essicacy in recovering drowned persons are, with equal success, applicable to a number of cases where the powers of life seem in reality to be only suspended, and to remain capable of renewing all their functions, on being put into motion again. It is shocking to reslect, that for want of this consideration many persons have been committed to the grave, in whom the principles of life might have been revived.

The cases wherein such endeavours are most likely to be attended with success, are all those called sudden deaths from an invisible eause, as apoplexies, hysterics, faintings, and many other disorders, wherein persons, in a moment, sink down and expire. The various casualties in which they may be tried, are suffocations, from the sulphureous damps of mines, coal-pits, &c.; the unwholesome air of long unopened wells or caverns; the noxious vapours arising from sermenting liquors; the steams of burning charcoal; sul-

phureous mineral acids; arfenical effluvia, &c.

The various accidents of drowning, strangling, and apparent deaths, by blows, falls, hunger, cold, &c. likewise furnish opportunities of trying such endeavours. Those, perhaps, who to appearance are killed by lightning, or by any violent agitation of the

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pailions, as fear, joy, furprife, and fuch-like, might also be frequently recovered by the use of proper means, as blowing strongly

into their lungs, &c.

The means to be used for the recovery of persons suddenly deprived of life, are nearly the same in all cases; they are practicable by every one who happens to be present at the accident, and require no great expense, and less skill. The great aim is to restore the warmth and vital motions. This may in general be attempted by means of heat, frictions, bleeding, blowing air into the lungs, administering clysters and generous cordials. These must be varied according to circumstances. Common sense, and the situation of the patient, will suggest the proper manner of conducting them. Above all, we recommend perseverance. People ought never to despair on account of discouraging circumstances, or to leave off their endeavours as long as there is the least hope of success. Where much good, and no hurt can be done, no one ought to grudge his labour.

CHAPTER LVII.

Cautions concerning Cold Bathing, and Drinking the Mineral Waters.

If I is now fashionable for persons of all ranks to plunge into the fea, and drink the mineral waters, I am desirous of rendering this work more extensively useful, by some practical remarks on these active and useful medicines.

No part of the practice of medicine is of greater importance, or merits more the attention of the physician, as many lives are lost, and numbers ruin their health, by cold bathing, and an imprudent afe of mineral waters.

Without a proper discrimination with regard to the disease and constitution of the patient, the most powerful medicine is more likely to do harm than good. The same physician, who, by cold bathing, cured Augustus, by an imprudent use of the same medicine, killed his heir. This induced the Roman senate to make laws for regulating the baths, and preventing the numerous evils which arose from an imprudent and promiscuous use of those elegant and sashionable pieces of luxury. But as no such laws exist in this coun-

try, every one does that which is right in his own eyes, and of course

many must do wrong.

People are apt to imagine that the simple element of water can do no hurt, and that they may plunge into it at any time with impunity. In this, they are much mistaken. I have known apoplexies occasioned by going into the cold bath, severs excited by staying too long in it, and other maladies so much aggravated by its confinued use, that they could never be wholly eradicated. Nor are examples wanting, either in ancient or modern times, of the baneful consequences which have arisen from an injudicious application of the warm bath; but as warm baths are not so common in this country, and are seldom used but under the direction of a physician, I shall not enlarge on that part of the subject.

Immersion in cold water is a custom which lays claim to the most remote antiquity: indeed, it must have been coeval with man himself. The necessity of water for the purposes of cleanliness, and the pleasure arising from its application to the body in hot countries, must, very early, have recommended it to the human species. Even the example of other animals was sufficient to give the hint to man. By instinct, many of them are led to apply cold water in this manner; and some, when deprived of its use, have

been known to languish, and even to die.

The cold bath recommends itself in a variety of cases, and is peculiarly beneficial to the inhabitants of populous cities, who indulge in idleness, and lead sedentary lives. In persons of this description, the action of the solids is always too weak, which induces a languid circulation, a crude indigested mass of humours, and obstructions in the capillary vesses and glandular system. Cold water, from its gravity as well as its tonic power, is well calculated either to obviate or remove these symptoms. It accelerates the motion of the blood, promotes the different secretions, and gives permanent vigour to the solids. But all these important purposes will be more essentially answered by the application of falt water. This ought to be preserved on account of its superior gravity, and for its greater power of stimulating the skin, which promotes the perspiration, and prevents the patient from catching cold.

Cold bathing is more likely to prevent, than to remove obstructions of the glandular or lymphatic system. Indeed, when these have arrived at a certain pitch, they are not to be removed by any means. In this case, the cold bath will only aggravate the symptoms, and hurry the patient into the grave. It is therefore of the utmost importance, previous to the patient's entering upon the use of the cold bath, to determine whether or not he labours under any obstinate obstructions of the lungs or other viscera; and

where this is the case, cold bathing ought strictly to be prohited*.

In what is called a plethoric state, or too great a fulness of the body, it is likewise dangerous to use the cold bath, without due preparation. In this case, there is great danger of bursting a blood-vessel, or occasioning an inflammation of the brain, or some of the viscera. This precaution is the more necessary to citizens, as most of them live full, and are of a gross habit. Yet, what is very remarkable, these people resort in crowds every season to the season and plunge in the water without the least consideration. No doubt they often escape with impunity; but does this give a fanction to the practise? Persons of this description ought by no means to bathe, unless the body has been previously prepared by suitable evacuations.

Another class of patients, who stand peculiarly in need of the bracing qualities of cold water, is the nervous. This includes a great number of the male, and almost all the semale inhabitants of great cities. Yet even those persons ought to be cautious in using the cold bath. Nervous people have often weak bowels, and may, as well as others, be subject to conjections and obstructions of the viscera; and in this case, they will not be able to bear the effects of the cold water. For them, and for all delicate people, the best plan would be to accustom themselves to it by the most pleasing and gentle degrees. They ought to begin with the temperate bath, and gradually use it cooler, till at length the coldest proves quite agreeable. Nature revolts against all great transitions; and those who do violence to her dictates, have often cause to repent of their temerity.

Where cold bathing is practifed, there ought likewise to be tepid baths for the purpose mentioned above. Indeed, it is the practice of some countries to throw cold water over the patient as soon as he comes out of the warm bath; but though this may not injure a Russian peasant, we dare not recommend it to the inhabitants of this country. The ancient Greeks and Romans, we are told, when covered with sweat and dust, used to plunge into rivers, without receiving the smallest injury. They might often escape danger from this imprudent conduct, yet it was certainly contrary to sound reason. Many robust men throw away their lives by such an attempt. We would not advise patients to go into the cold water when the body is chilly; as much exercise, at least,

^{*} The late celebrated Dr. Smollet has faid that, if he were perfuaded he had an ulcer in the lungs, he would jump into the co.d bath: he evidently flows more courage than difference; and, that he was more a man of wit than a physician, every one will allow. A nervous afthma, or an atrophy, may be mittaken for a pulmonary confumption; yet, in the two former, the cold bath proves often beneficial, though I never knew it so in the latter. Indeed, all phthisical patients I ever faw, who had tried the cold bath, were evidently burt by it.

ought to be taken, as may excite a gentle glow all over the body,

but by no means fo as to overheat it.

To young people, and particularly to children, cold bathing is of the last importance. Their lax fibres render its tonic powers peculiarly proper. It promotes their growth, increases their strength*, and prevents a variety of diseases incident to childhood. Were infants early accustomed to the cold bath, it would seldom disagree with them; and we should see sewer instances of scrophula, rickets, and other diseases, which kill many, and make others miserable for life. Sometimes these disorders render infants incapable of bearing the shock of cold water; but this is owing to their not having been early and regularly accustomed to it. It is necessary here to caution young men against too frequent bathing; many satal consequences result from the daily practice of plunging into rivers, and continuing there too long.

The most proper time of the day for using the cold bath is, no doubt, the morning, or at least before dinner; and the best mode that of quick immersion. As cold bathing has a constant tendency to propel the blood and other humours towards the head, it ought to be a rule always to wet that part as soon as possible. By due attention to this circumstance, violent head-achs, and other complaints, which frequently proceed from cold bathing, might

be often prevented.

The cold bath, when too long continued in, occasions too great a flow of blood towards the head, cramps the muscles, and wholly defeats the intention of bathing. Hence, by not adverting to this circumstance, expert swimmers are often injured, and sometimes even lose their lives. All the beneficial purposes of cold bathing are answered by one immersion at a time; and the patient ought to be rubbed dry the moment he comes out of the water, and should continue to take exercise for some time after.

When cold bathing occasions chilness, loss of appetite, listlessness, pain of the breast or bowels, a prostration of strength, or

violent head-achs, it ought to be discontinued.

Though these hints are by no means intended to point out all the cases where cold bathing may be hurtful, nor to illustrate its extensive utility as a medicine; yet it is hoped they may serve to guard people against some of those errors into which from mere inattention they are apt to fall, and thereby not only endanger their own lives, but bring an excellent medicine into disrepute.

Galen fays, that immersion in cold water is fit only for the young of lions and bears; and recommends warm bathing, as conducive to the growth and strength of infants. How egregiously do the greatest men err whenever they lose fight of fasts, and substitute reasoning in physic in place of observation and experience!

Of Drinking the Mineral Waters.

of the physician's attention than the external. Pure elementary water is, indeed, the most inosfensive of all liquors, and constitutes a principal part of the food of every animal. But this element is often impregnated with substances of a very active and penetrating nature; and of such an insidious quality, that, while they promote certain secretions, and even alleviate some disagreeable symptoms, they weaken the powers of life, undermine the constitution, and lay the foundation of worse diseases than those which they were employed to remove. Of this, every practitioner must have seen instances; and physicians of eminence have more than once declared, that they have known more diseases occasioned than removed by the use of mineral waters. This doubtless, has proceeded from the abuse of these powerful medicines, which evinces the necessity of using them with caution.

By examining the contents of the mineral waters which are most used in this country, we shall be enabled to form an idea of the danger which may arise from an improper application of them, either externally or internally, though it is to the latter of these that

the present observations are chiefly confined.

The waters most in use for medical purposes in Britain, are those impregnated with salts, sulphur, iron, and mephitic air, either separately, or variously combined. Of these the most powerful is the saline sulphureous water of Harrowgate, of which I have had more occasion to observe the pernicious consequences, when improperly used, than of any other. To this, therefore, the sollowing remarks will more immediately relate, though they will be found applicable to all the purging waters in the kingdom which are strong enough to merit attention.

The errors which so often defeat the intention of drinking the purgative mineral waters, and which so frequently prove injurious to the patient, proceed from the manner of using them, the quantity taken, the regimen pursued, or using them in cases where they

are not proper.

A very hurtful prejudice still prevails in this country, that all diseases must be cured by medicines taken into the stomach, and that the more violently these medicines operate, they are the more likely to have the desired essect. This opinion has proved fatal to thousands, and will, in all probability, destroy many more before it can be wholly cradicated. Purging is often useful in acute diseases, and, in chronical cases, may pave the way for the operation of other medicines; but it will feldom perform a cure; and by exhausting the strength of the patient, will often leave him in a worse condition than it found him. That this is frequently the case with re-

gard to the more active mineral waters, every person conversant in

these matters will readily allow.

Strong stimulants applied to the stomach and bowels for a length of time, must tend to weaken and destroy their energy; and what stimulants are more active than falt and sulphur, especially when these substances are intimately combined, and carried through the system by the penetrating medium of water? These bowels must be strong indeed, which can withstand the daily operation of such active principles for months together, and not be injured. This is the plan pursued by most of those who drink the purging mineral waters, and whose circumstances will permit them to continue long enough at those safetiments.

Many people imagine that every thing depends on the quantity of water taken, and that the more they drink they will the fooner get well. This is an egregious error; for while the unhappy patient thinks he is by this means eradicating his diforder, he is often in fact undermining the powers of life, and ruining his conftitution. Indeed, nothing can do this fo effectually as weakening the powers of digestion by the improper application of strong stimulants. The very effence of health depends on the digestive organs performing their due functions, and the most tedious maladies are

all connected with indigestion.

Drinking the water in too great quantity, not only injures the bowels and occasions indigestion, but generally deseats the intention for which it is taken. The diseases for the cure of which mineral waters are chiefly celebrated, are mostly of the chronic kind; and it is well known that such diseases can only be cured by the slow operation of alteratives, or such medicines as act by inducing a gradual change in the habit. This requires length of time, and never can be effected by medicines which run off by stool, and operate chiefly on the sirft passages.

Those who with for the cure of an obstinate malady from the mineral waters, ought to take them in such a manner as hardly to-produce any effect whatever on the bowels. With this view a half-pint glass may be drank at bed-time*, and the same quantity an hour before breakfast, dinner, and supper. The dose, however, must vary according to circumstances. Even the quantity mentioned above will purge some persons, while others will drink twice as much without being in the least moved by it. Its operation on the bowels is the only standard for using the water as an alterative. No

^{*} When I speak of drinking a glass of the water over night, I must beg leave to caution those who follow this plan against eating heavy suppers. The late Dr. Daultry of York, who was the sest that brought the Harrowgate waters into repute, used to advise his patients to drink a glass before they went to bed; the consequence of which was, that having eat a flesh supper, and the water operating in the night, they were often tormented with gripes, and obliged to call for incideal assistance.

more ought to be taken than barely to move the body; nor is it always necessary to carry it this length, provided the water goes of by the other emunctories, and does not occasion a chilness, or slatulency in the stomach or bowels. When the water is intended to purge, the quantity mentioned above may be all taken before break-

I would not only caution patients who drink the purging mineral waters over night to avoid heavy suppers, but also from eating heavy meals at any time. The stimulus of water, impregnated with falts, feems to create a falfe appetite. I have feen a delicate person, after drinking the Harrowgate waters of a morning, eat a breakfast sufficient to have served two ploughmen, devour a plentiful dinner of flesh and fish, and, to crown all, eat such a supper as might have fatisfied a hungry porter. All this, indeed, the stomach feemed to crave; but this craving had better remain not quite fatisfied, than that the stomach should be loaded with what exceeds its powers. To starve patients was never my plan; but in the use of all the purging mineral waters, a light, and rather diluting diet is the most proper; and no person, during such a course, ought to eat to the full extent to what his appetite craves.

To promote the operation of mineral waters, and to carry them through the fystem, exercise is indispensably necessary. This may be taken in any manner that is most agreeable to the patient; but never to excess. The best kinds of exercise are those connected with amusement. Every thing that tends to exhilarate the spirits, not only promotes the operation of the waters, but acts as a medicine. All who refort to the mineral waters, ought, therefore, to leave every care behind, to mix with the company, and to make themselves as cheerful and happy as possible. From this conduct, affifted by the free and wholesome air of those fathionable places of refort, and also the regular and early hours which are usually kept, the patient often receives more benefit than from using the waters.

But the greatest errors in drinking the purging mineral waters arise from their being used in cases where they are absolutely improper, and adverse to the nature of the disease. When people hear of a wonderful cure having been performed by some mineral water, they immediately conclude that it will cure every thing, and accordingly fwallow it down, when they might as well take poifon. Patients ought to be well informed, before they begin to drink the more active kinds of mineral waters, of the propriety of the course, and should never persist in using them when they are found to aggravate the diforder.

In all cases where purging is indicated, the faline mineral waters will be found to fulfil this intention better than any other medi-Their operation, if taken in proper quantity, is generally mild; and they are neither found to irritate the nerves, nor debi-

litate the patient so much as other purgatives.

As a purgative, these waters are chiefly recommended in diseases

of the first passages, accompanied with, or proceeding from, inactivity of the stomach and bowels, acidity, indigestion, vitiated bile, worms, putrid sordes, the piles, and jaundice. In most cases of this kind they are the best medicines that can be administered. But when used with this view, it is sufficient to take them twice, or at most, three times a-week, so as to move the body three or four times; and it will be proper to continue this course for some weeks.

But the operation of the more active mineral waters is not confined to the bowels. They often promote the difcharge of urine, and not unfrequently increase the perspiration. This shews that they are capable of penetrating into every part of the body, and of stimulating the whole system. Hence arises their efficacy in removing the most obstinate of all disorders, obstructions of the glandular and lymphatic system. Under this class is comprehended the scrophula or king's evil, indolent tumours, obstructions of the liver, spleen, kidnies, and mesenteric glands. When these great purposes are to be effected, the waters must be used in the gradual manner mentioned above, and persisted in for a length of time. It will be proper, now and then, to discontinue their use for a few days.

The next great class of diseases, where mineral waters are found to be beneficial, are those of the skin, as the itch, scab, tetters, ringworms, scaly eruptions, leprosies, blotches, foul ulcers, &c. Though these may seem superficial, yet they are often the most obstinate which the physician has to encounter, and not unfrequently set his skill at defiance: but they will sometimes yield to the application of mineral waters for a sufficient length of time, and in most cases of this kind, these waters deserve a trial. The saline sulphureous waters, such as those of Mosfat in Scotland, and Harrowgate in England, are the most likely to succeed in diseases of the skin; but for this purpose, it will be necessary not only to drink the wa-

ters, but likewise to use them externally.

To enumerate more particularly the qualities of the different mineral waters, to specify those diseases in which they are respectively indicated, and to point out their proper modes of application, would be an useful, and by no means a disagreeable employment; but as the limits prescribed to these remarks will not allow me to treat the subject at more length, I shall conclude, by observing, that whenever the mineral waters are found to exhaust the strength, depress the spirits, take away the appetite, excite severs, distend the bowels, or occasion a cough, they ought to be discontinued.



APPENDIX:

CONTAINING

- A List of Simples, and of such Medicinal Preparations, as ought to be kept in Readiness for private Practice:
- The Method of preparing and compounding fuch Medicines, as are recommended in the former Part of the Book, with the Addition of feveral others of a fimilar Nature:
- Remarks on the Doses, Uses, and Manner of applying the different Preparations.



INTRODUCTION.

CNORANGE and Superfittion have attributed extraordinary medical virtues to almost overy production of nature. That such virtues were often imaginary, time and experience have sufficiently shown. Physicians, however, from a veneration for antiquity, still retain in their lists of medicine, many things which owe their reputation entirely to the superfition and credulity of our ancestors.

The instruments of medicine will always be multiplied in proportion to men's ignorance of the nature and cause of diseases: when these are sufficiently understood, the method of cure will be simple and obvious.

Ignorance of the real nature and permanent properties of those subflances employed in the cure of diseases, is another reason why they have been so greatly multiplied. Physicians thought they could effect, by a number of ingredients, what could not be done by any one of them. Hence arose those amuzing farragos, which have so long disgraced the medical art, and which were esteemed powerful in proportion to the number of simples that entered their composition.

The great variety of forms into which almost every article of medicine has been manufactured, offords another proof of the imperfection of the medical art. A drug which is perhaps most efficacious in the simplest form in which it can be administered, has been nevertheless served up in so many different shapes, that one would be induced to think the whole art of physic lay in exhibiting medicine under as many different modes as possible.

Different forms of medicine, no doubt have their use; but they ought never to be awantonly increased. They are by no means so necessary as is generally imagined. A few grains of powdered rhubarb, jalap, or ipecacuanha, will actually perform all that can be done by the different preparations of these roots, and may also be exhibited in as safe and agreeable a manner. The same observation holds with regard to the Peruvian bark, and many other simples of which the preparations are very numerous.

Multiplying the ingredients of a medicine, not only renders it more expensive, but also less certain, both in its dose and operation. Nor is this all. The compound, when kept, is apt to spoil, or acquire qualities of a different nature. When a medicine is rendered more safe, efficacious, or

agreealle, by the addition of another, they ought, no doubt, to be joined; in all other cases, they are better kept as funder. The combination of medicines embarrasses the physician, and retards the progress of medical knowledge. It is impossible to ascertain the precise asset is combined with others, either of a similar or dissimilar nature.

In the exhibition of medicine, regard foould not only be had to fimplicity, but likewife to elegance. Fatients feldom reap much benefit from things that are highly difagreeable to their fenfes. To teste or smell like a drug is become a proverb; and to say truth, there is too much ground for it. Indeed, no art can take away the disagreeable taste and slavour of some drugs, without entirely destroying their essection; it is possible, however, to render many medicines less disagreeable, and others even agreeable; an object highly deserving the attention of all who administer medicine.

The design of the following pages is to exhibit such a list of drugs and medicines as may be necessary for private practice. They are considerably more numerous than those recommended in the former part of the book, but still greatly within the number contained in the most reformed dispersatories. The same medicine is seldom exhibited under different forms; and where different medicines answer nearly the same intention, there is commonly no more than one of them retained. Multiplying forms of medicine for the same intention, tends rether to bewilder than assist the young practitioner, and the experienced physician can never be at a loss to vary his prescriptions as occusion requires.

The chemical and other difficult preparations are for the most part on: itted. All of them that are used by any private practitioner are not worth preparing. He will buy them much cheaper than he can make them. Great care however is negligary to obtain them genuine. They are often adulterated, and ought never to be purchased unless from persons of known veracity. Such of them as are in common use are inserted in the list of drugs and medicines. Their proper doses, and manner of application, are mentioned in the practical part of the book, wherever they are prescribed.

Such articles of medicine as are to be found in the honse or garden of almost every peasant, as barley, eggs, onions, &c. are likewise for the most part omitted. It is needless to swell a list of medicines with such things as can be obtained whenever they are wanted, and which spoil by being kept.

The preparations made and fill by diffillers and confectioners are also generally left out. These people, by operating upon a larger plan, generally make things better, while it is in their power to afford them much cheaper, than they can be prepared by any private hand.

The quantity ordered of every medicine is as small as could well be prepared, both to prevent unnecessary expense, and that the medicine might not spoil by keeping. Aimost every medicine suffers by being kept, and should be used as soon after it has been prepared as possible. Even simple drugs are apt to spoil, and should therefore be laid up in small quantities; they either rot, are consumed by insects, or evaporate so as to lose their peculiar, taste or stavour, and often become quite insignificant.

In the preparation of medicines, I have generally followed the most improved dispensatories; but have taken the liberty to differ from them wherever my own observations, or those of other practical writers, on whose judgment I could depend, suggested an improvement.

In feveral compositions, the ingredient on which the efficacy of the medicine principally depends is increased, while the auxiliaries, which are generally ordered in such trisling quantities as to be of no importance, are left out, or only such of them retained as are necessary to give the medicine a proper consistence, or the like.

The colouring ingredients are likewise for the most part omitted. They increase the bulk and price of the medicine; without adding any thing to its value. It would be well if they were never used at all. Medicines are often adulterated for the sake of a colour. Acrid and even possonous substances are, for this purpose, sometimes introduced into those medicines which ought to be most bland and emollient. Ointment of elder, for example, is often mixed with verdegrife to give it a fine green colour, which entirely frustrates the intention of that mild ointment. Those who wish to obtain genuine medicines should pay no regard to their colour.

Some regard is likewise paid to expense. Such ingredients as greatly increase the price of any composition, without adding considerably to its virtue, are generally either omitted, or somewhat less expensive substituted in their place. Medicines are by no means powerful in proportion to their price. The cheapest are often the best; besides, they are the least apt to be adulterated, and are always most readily obtained.

With regard to the method of compounding medicines, I have generally followed that which seemed to be the most simple and natural, mentioning the different steps of the process in the same order in which they ought to be taken, without paying an implicit regard to the method of other dispensatories.

For many of the remarks concerning the preparation, &c. of medicines, I have been obliged to the author of the New Dispensatory. The other observations are either such as have occurred to myself in practice, or have been suggested in the course of reading, by authors whose names I am not able distinctly to recollect.

I have followed the alphabetical order, both with regard to the simples and preparations. A more scientific method would have been agreeable to

some persons, but less useful to the generality of readers. The different classes of medicine have no great dependence upon one another; and, where they have, it is hard to say which should stand first or last; no doubt the simple preparations ought to precede the more compound. But all the advantages arising from this method of arrangement do not appear equal to that single one, of being able, on the first opening of the book, to find out any article, which, by the alphabetical order, is rendered quite easy.

The dose of every medicine is mentioned whenever it appeared necessary. When this is omitted, it is to be understood that the medicine may be used at discretion. The dose mentioned is always for an adult, unless when the contrary is expressed. It is not an easy matter to proportion the doses of medicine exactly to the different ages, constitutions, &c. of patients; but happily for markind, mathematical exactness here is by no means necessary.

Several attempts have been made to ascertain the proportional doses for the different ages and constitutions of patients; but, after all that can be said upon this subject, a great deal must be left to the judgment and skill of the person who administers the medicine. The following general proportions may be observed; but they are by no means intended for exact rules. A patient between twenty and fourteen may take two-thirds of the dose ordered for an adult; from sourteen to nine, one-half; from nine to six, one-third; from six to sour, one-fourth; from four to two, one-sixth; from two to one, a tenth; and below one, a twelsth.

Dispensatories are usually written in the Latin language. Even authors who write in English, generally give their prescriptions in Latin; and some of them shew so great an attachment to that language, as first to write their recipes in it, and afterwards translate them; while others, to compromise the matter, write the one half in Latin and the other in English. I have used the plainest English I could, and hope my prescriptions will succeed no worse for it.

N.B. The apothecary's weights, and the English wine measures, are used throughout the whole book, the different denominations of which will appear from the following table:

A pound contains twelve ounces.
An ounce - - eight drachms.
A drachm - - three scruples.
A scruple - - twenty grains.
A gallon contains eight pints.
A pint - - sixteen ounces.
An ounce - - eight drachms.

A table-spoonful is the measure of half an ounce. A tea-spoonful is one fourth of a table-spoonful-Sixty drops make one tea-spoonful. A LIST of SIMPLES, and of fuch MEDICINAL PRE-PARATIONS, as ought to be kept in Readiness for private Practice.

A GARIC	—— Jamaica pepper
Alum	juniper berries
Antimony, crude	nutineas
	nutmegs tamarinds
cinnabar of	
Sulphur of	Gum, aloes
Balfam of Capivi	ammoniac, in tears
——of Peru	arabic
of Peru of I olu	a!afœtida
Bark, cascarilla	camphor
cinnamon	camphor galbanum
Mezerion	gamboge
—Peruvian	guaiacum
Winter's, or canella alba	kino
m's	
Borax	myrrh
Calamine stone, levigated	opium
Castor, Russian	Hartshorn, calcined
Cuustic, common	Shavings of
lunar	Herbs, lesser centaury
Earth, Fuller's	peppermint
Japan	Spearmint
Armenian bole	penny-royal
——French ditto	favin
Extracts of gentian	trefoil
—of guaiacum	uva ursi
of hellebore, black	wormwood
of handach	Lead, Litharge
of hemlock	
of jalap	white
of liquorice	fugar of
of Peruvian bark	Lemon-peel
of poppies	Mace
of rvormrvood	Magnefia alba
Flowers of camomile	Manna
colt's foot	Mercury, crude
——elder	calcined :
rofemary	Æthiop's mineral
	calomel
- red ditto	corrosive su'limate
	red precipitate
Fruits, almonds	white ditto
bitter apple	
cassia fistularis	Musk
Cur. ssao oranges	Oil, essential, of amber
figs, dried	of anife
French prunes	of cinnumors
	K 3

442 LIST OF SIMILEES, GC.	
Oil, essential, of juniper	of tartar
- of lemon-teel	Seeds, anife
of lemon-peel of peppermint	carraway
-expressed, of almonds	cardamons
	coriander
Oil of olives, or Florence oil	cummin
	muftard
-of turpentine	
Orange-peel	wild carrot
Oyster-shells prepared	Senna
Poppy-heads	Spanish slies
Refins, benzoin	Spirits, athereal, or ather
—————flowers of ——Burgundy pitch	
Burgunay pitch	of hartshorn
dragon's blood	of lavender, compound
frankincense	of nitre
——liquid ftorax ——white, or rofin	ditto dulcified
white, or rofin	——of fal ammoniac
scammony	of sea salt
Roots, birthworth	——of vinegar ——of vitriol
——calamus aromaticus	
contrayerva	- of wine, rectified
garlic	volatile aromatic
gentian	Steel, filings of
——ginger ——hellebore, black, white	rust of, prepared
hellebore, black, white	foluble, falt of
——jalap	Sulphur vivum
ipecacuanha	balfam of
——lily, white	Sulphur, flowers of
liquorice	Tar
marsh-mallow	Barbadoes
mezerion	Tartar, cream of
rhubarb	emetic
fars.iparilla	foluble
feneka	vitriolatea
fquills	Tin prepared
tormentil	Tutty, levigated
turmeric	Turpentine, Venice
Virginian snake	Verdegreofe
wild valerian	Vitriol, green
zedoary	blue
Saffron	white
Sal anmoniac, crude	Wax, white
volatile	——yellorv
Salt, Epsom	Woods, guaiacum
of Glauber	logrwood
of hartshorn	faffafras
-nitre, purified, or prunel	faunders, red
Polychrest	Zinc, flowers of
Rochel	
-	

MEDICINAL PREPARATIONS.

BALSAMS.

HE subject of this section is not the natural balfams, but certain compositions, which, from their being supposed to possess balsamic qualities, generally go by that name.

This class of medicine was formerly very numerous, and held in great eseem: modern practice has reduced it to a very narrow compais.

Anodyne Balfam.

Take of white Spanish soap, one ounce; opium, unprepared, two drachms; rec-tified spirit of wine, nine ounces. Digest them together in a gentle heat for three

days; then strain off the liquor, and add to it three drachms of camphor.

This bailam is intended to ease pain. It is of fervice in violent strains and rheumatic complaints, when not attended with inflammation. It must be rubbed with a warm hand on the part affected; of a linen rag moistened with it may be applied to the part, and renewed every third or fourth hour, till the pain abates. If the spium is lest out, this will be the supponacious bailam.

Locatelli's Balfam.

Take of olive oil, one pint; Strasburg turpentine and yellow wax, of each half a pound; red faunders, fix drachms. Melt the wax with fome part of the oil over a gentle fire; then adding the remaining part of the oil and the turpentine; afterwards mix in the faunders, previously reduced to a powder, and keep them stirring

together till the balfam is cold.

This balfam is recommended in erofions of the inteffines, the dysentery, hæmorrhages, internal bruises, and in some complaints of the breast. Outwardly it is used for healing and cleansing wounds and ulcers. The dose, when taken internally, is from two scruples to two drachms.

The vulnerary Balfam.

Take of benzoin, powdered, three ounces; balfam of Peru, two ounces: hepatic aloes, in powder, halt an ounce; rectified spirit of wine, two pints. Digest them

in a gentle lieat for three days, and then strain the balfam.

This balfam, or rather tincture, is applied externally to heal recent wounds and bruifes. It is likewife employed internally to remove coughs, afthmas, and other complaints of the breaft. It is faid to cafe the colic, cleanfe the kidnies, and to heal internal ulcers, &c.

The dofe is from twenty to fixty drops.

This, though a medicine of some value, does not deserve the extravagant encomi-ums which have been bestowed on it. It has been celebrated under the different names of The Commanders Basson, Persian Bassam, Bassam of Barne, Wade's Bassam, Friar's Balfam, Jefuit's Drops, Turlington's Drops, &c.

BOLUSES.

As boluses are intended for immediate use, volatile salts and other ingredients impreper for being kept are admitted into their composition. They are generally composed of powders, with a proper quantity of syrup, conserve, or muchage. The lighter powders are commonly made up with syrup, and the more ponderous, as mercury, &c. with conserve; but those of the lighter kind would be more conversable and the syrup and the syrup and the syrup are the syrup are the syrup and the syrup are the syrup and the syrup are the niently made up with mucilage, as it increases their bulk less than the other additions, and likewife occasions the medicine to pass down more easily.

APPENDIX.

Astringent Bolus.

Take of alum, in powder, fifteen grains; gum kino, five grains; fyrup, a fuffici-

ent quantity to make a bolus.

In an excellive flow of the menfes, and other violent discharges of blood, proceeding from relaxation, this bolus may be given every four or five hours, till the discharge

Diaphoretic Bolus.

Take of gum guaiacum, in powder, ten grains; flowers of fulphur and cream of tartar, of each one scruple; simple syrup, a sufficient quantity.

In rheumatic complaints, and diforders of the skin, this bolus may be taken twice

a-day. It will also be of service in the inflammatory quinsey.

Mercurial Bolus.

Take of calomel, fix grains; conferve of roses, half a drachm. Make a bolus. Where mercury is necessary, this bolus may be taken twice or thrice a week It may be taken over night; and it is does not operate, a few grains of jalap will be proper next day to carry it off.

Bolus of Rhubarb and Mercury.

Take of the best rhubarb in powder, from a scruple to half a drachm; of calomel, from four to six grains; simple syrup, a sufficient quantity to make a bolus.

This is a proper purge in hypochendriac constitutions; but its principal intention is to expel worms. Where a strong purge is necessary, jalap may be used instead of the rhubarb.

Pettoral Bolus.

Take of spermaceti, a scruple; gum animoniac, ten grains; salt of hartshorn, six grains; simple syrup, as much as will make them into a bolus.

This bolus is given in colds and coughs of long standing, assumes, and beginning consumptions of the lungs. It is generally proper to bleed the patient before he begins to use it.

Purging Bolus.

Take of jalap in powder, a scruple; cream of tartar, two scruples. Let them be

rubbed together, and formed into a bolus, with simple syrup.

Where a mild purge is wanted, this will answer the purpose very well. If a stronger dose is necessary, the jalap may be increased to half a drachm or upwards.

CATAPLASMS AND SINAPISMS.

CATAPLASMS possesses few or no virtues superior to a poultice, which may be so made, as, in most cases, to supply their place. They are chiefly intended cither to act as discutients, or to promote suppuration; and as they may be of service in tome cases, we shall give a specimen of each kind.

Discutient Cataplasm.

Take of barley-meal, fix ounces; fresh hemlock leaves bruised, two ounces; vinegar, a fufficient quantity. Boil the meal and hemlock in the vinegar for a little, and then add two drachms of the fugar of lead.

Ripening Cataplasm.

Take of white lily root, four ounces; fat figs and raw onions, bruifed, of each one ounce; yellow basilicum ointment, two ounces; gum galbanum, half an ounce; linseed meal, as much as necessary. Boil the roots along with the figs in a sufficient quantity of water; then brusse and ad a to them the other ingredients so as to form the whole into a fost cataplasm. The galbanum must be previously dissolved with the yolk of an egg.

Where it is necessary to promote suppuration, this cataplasm may be used by those who choose to be at the trouble and expense of making it. I have found no application more proper for this purpose than a poultice of bread and milk, with a sufficient quantity of either boiled or raw onion in it, and fostened with oil or fresh butter.

Sinapisms.

Sinapifms are employed to recal the blood and spirits to a weak part, as in the palfy and atrophy. They are also of service in deep seated pains, as the sciatica, &c. When the gout feizes the head or the flomach, they are applied to the feet to bring the diforder to these parts. They are likewise applied to the patient's soles in the low state of fevers. They should not be suffered to lie on, however, till they have raised blisters, but till the parts become red, and will continue so when pressed with the finger.

The finapifm is only a poultice made with vinegar instead of milk, and rendered

warm and itimulating by the addition of mustard, horse-radish, or garlic.

The common sinapism is made by taking crumb of bread and mustard-seed in powder, of each equal quantities; strong vinegar, as much as is sufficient, and mixing them so as to make a poultice.

When sinapsims of a more stimulating nature are wanted, a little bruised garlic

may be added to the above.

CLYSTERS.

THIS class of medicines is of more importance than is generally imagined. Clysters scrve, not only to evacuate the contents of the belly, but also to convey very active medicines into the fiftem. Opium, for example, may be administered in this way when it will not fit upon the stomach, and also in larger doses than at any time it can be taken by the mouth. The Peruvian bark may likewife be, with good effect, administered in form of clyster to persons who cannot take it by the mouth.

A fimple clyster can seldom do hurt, and there are many cases where it may do much good. A clyster even of warm water, by serving as a somentation to the parts, may be of confiderable fervice in inflammations of the bladder, and the lower intef-

Some fubflances, as the smoke of tobacco, may be thrown into the bowels in this way, which cannot by any other means whatever. This may be easily effected by means of a pair of hand-bellows, with an apparatus fitted to them for that purpose.

Nor is the use of clysters confined to medicines. Aliment may also be conveyed in this way. Persons unable to swallow, have been, for a considerable time, supported

by clysters.

Emollient Clyster.

Take of linfeed tea and new milk, each fix ounces. Mix them. If fifty or fixty drops of laudanum be added to this, it will supply the place of the

Anodyne Clyfler.

Laxative Clyster.

Take of milk and water, each fix ounces; fweet oil and fresh butter, and brown fugar, of each two ounces. Mix them.

If an ounce of Glauber's falt, or two table-spoonfuls of common falt be added to

this, it will be the Purging Clyster.

Carminative Clyster.

Take of camomile flowers, an ounce; anife-feeds, half an ounce. Boil in a pine and a half of water to one phit.

In hysteric and hypochondriac complaints this may be administered instead of the Fatid Clyster, the finell of which is so disagreeable to most patients.

Oily Clifter.

To four ounces of the infusion of camomile flowers, add an equal quantity of Florence oil.

This clyster is beneficial in bringing off the small worms lodged in the lower parts of the alimentary canal. When given to children the quantity must be preportionably lessened.

Starch Clyfler.

Take jelly of flarch, four ounces; linfeed oil, half an ounce. Liquify the jelly over a gentle fire, and then mix in the oil.

In the dyfentery or bloody flux, this clyfter may be administered after every loofe flool, to heal the ulcerated intestines and blunt the sharpness of corroding humours. Forty or fifty drops of laudanum may be occasionally added; in which case, it will generally supply the place of the Astringent Clyster.

Turpentine Clyster.

Take of common decoction, ten ounces; Venice turpentine, diffolved with the yolk of an egg, half an ounce; Florence oil, one ounce. Mix them.

This diuretic clyster is proper in obstructions of the urinary passages, and in cholicky complaints, proceeding from gravel.

Vinegar Clyster.

This clyfter is made by mixing three ounces of vinegar with five of water-gruel. It answers all the purposes of a common clyster, with the peculiar advantage of being proper either in inflammatory or putrid disorders, especially the latter.

* * We think it unnecessary to give more examples of this class of medicines, as ingredients adapted to any particular intention may be occasionally added to one or other of the above forms.

COLLYRIA or EYE-WATERS.

 $\mathbf{F}^{ ext{YE-WATERS}}$ have been multiplied without number, almost every person pretending to be possessed of some secret preparation for the cure of sore eyes. \mathbf{I} have examined many of them, and find that they are pretty much alike, the basis of most of them being either alum, vittiol, or lead. Their effects evidently are, to brace and restore the tone of the parts; hence they are principally of service in slight instammations, and in that relaxed state of the parts which is induced by ob-

Camphor is commonly added to these compositions; but as it seldem incorporates properly with the water, it can be of little use. Boles, and other earthy subilances, as they do not diffelve in water, are likewise unsit for this purpose.

Collyrium of Alum.

Take of alum, half a drachm; agitate it well together with the white of one egg. This is the Collyrium of Riverius. It is used in inflammation of the eyes, to allay heat, and restrain the flux of humours. It must be spread upon linen, and applied to the eyes; but should not be kept on above three or four hours at a time.

Vitriolic Collyrium.

Take of white vitriol, half a drachm; rose-water, six ounces. Dissolve the vi-

briol in the water, and filter the liquor.

This, though simple, is perhaps equal in virtue to most of the celebrated collyria. It is an useful application in weak, watery, and inflamed eyes. Though the flighter inflammations will generally yield to it, yet in those of a more oblinate nature, the affishance of bleeding and blistering will often be necessary.

When a strong astringent is judged proper, a doulde or triple quantity of the vi-triol may be used. I have seen a solution of sour times the strength of the above used

Collyrium of Lead.

Take fugar of lead, and crude fal ammoniae, of each four grains. Diffolve them in eight cunces of common water.

Forty or fifty drops of laudanum may be occasionally added to this collyrium. Those who chuse may substitute instead of this the collyrium of lead recommended by Goulard; which is made by putting twenty-five drops of his Extrast of Lead to eight ounces of water, and adding a tea-spoonful of brandy.

Indeed, common water and brandy, without any other addition, will in many cases answer very well as a collyrium. An ounce of the latter may be added to five or fix ounces of the former; and the eyes, if weak, bathed with it night and morning.

CONFECTIONS.

CONFECTIONS containing above fixty ingredients are fill to be found in some of the most reformed dispensatories. As most of their intentions, bowever, may be more certainly, and as effectually answered by a few glasses of wine or grains of opium, we shall pass over this class of medicines very slightly.

Japonic Confection.

Take of Japan earth, three ounces; tormentil root, putmeg, olibanum, of cach two ounces; opium diffolved in a fufficient quantity of Lifbon wine, a drachm and a half; fimple fyrup and conferve of rofes, of each fourteen ounces. Mix and make them into an electuary.

This supplies the place of the Diascordium.

The dose of this electuary is from a scruple to a drachm.

CONSERVES AND PRESERVES

POSSESS very few medicinal properties, and may rather be classed among fweatmeats than medicines.—They are fometimes, however, of use, for reducing into boluses or pills some of the more ponderous powders, as the preparations of

iron, mercury, and tin.

Conferves are compositions of fresh vegetables and sugar, beaten together into an uniform mass. In making these preparations, the leaves of vegetables must be freed from their stalks, the slowers from their cups, and the yellow part of orange-peel taken off with a rasp. They are then to be pounded in a marble mortar, with a wooden pettle, into a foreoth mass; after which, thrice their weight of sine sugar is commonly added by degrees, and the beating continued till they are uniformly mixed; but the conserve will be better if only twice its weight of sugar be added.

Those who prepare large quantities of conscrve generally reduce the vegetables to

a pulp by the means of a mill, and afterwards beat them up with fugar.

Conferve of Red Rojes.

Take a pound of red rofe buds, cleared of their heels; beat them well in a mortar, and, adding by degrees two pounds of double-refined fugar, in powder, make a conferve.

After the fame manner are prepared the conferves of orange-peel, refemary-flowers,

fea-wormwood, of the leaves of wood-forrel, Gc.

The conferve of roses is one of the most agreeable and useful preparations belonging to this class. A drachm or two of it, dissolved in warm milk, is ordered to be given as a gentle restringent in weakness of the stomach, and likewise in phthisical coughs, and spitting of blood. To have any considerable effects, however, it must be taken in larger quantities.

Conferve of Sloes.

This may be made by boiling the floes gently in water, being careful to take them out before they burft; afterwards expressing the juice, and beating it up with three times its weight of fine sugar.

In relaxations of the uvula and glands of the throat, this makes an excellent gargle,

and may be used at discretion.

Preferves are made by steeping or boiling sresh vegetables first in water, and alterwards in syrup, or a solution of sugar. The subject is either preserved moist in the syrup, or taken out and dried, that the sugar may candy upon it. The last is the most usual method.

Candid Orange Peel.

Soak Seville orange-peel in feveral waters, till it lofes its bitterness; then boil it in a folution of double-tennel fugar in water till it becomes tender and transparent.

Candid lerion-pecl is prepared in the rame manner.

It is needless to add more of these preparations, as they belong rather to the art of the confectioner than that of the apothecary.

DECOCTIONS.

WATER readily extracts the gummy and faline parts of vegetables; and though its action is thiefly confined to thefe, yet the refinous and only being intimately blended with the gummy and faline, are in great part taken up along with them. Hence watery decoctions and infusions of vegetables, conflitute a large, and not unufeful, class of medicines. Although most vegetables yield their virtues to water, as well by infusion as decoction, yet the latter is often necessary, as it faves time, and does in a few minutes what the other would require hours, and formetimes days, to effect.

The medicines of this class are all intended for immediate use.

Decoction of Althaa.

Take of the roots of marsh-mallows, moderately dried, three cunces; raisins of

the fun, one ounce; water three pints.

Boil the ingredients in the water till one third of it is confumed; afterwards firain the decocrion and let it fland for fome time to feetle. If the roots be thoroughly dried, they must be boiled till one half of the water be confumed.

In coughs, and fharp defluctions upon the lungs, this decoction may be used for

ordinary drink.

The Common Decoction.

Take of camomile flowers, one ounce; elder flowers, and fweet fennel feeds, of each half an ounce; water, two quarts. Boil them for a little, and then strain the decoction.

A medicine equally good may be prepared by infusing the ingredients for some

hours in boiling water.

This decoction is chiefly intended as the bafis of clysters, to which other ingredients may be occasionally added. It will likewife serve as a common fomentation, spirit of wine or other things being added in such quantity as the case may require.

Decoction of Logwood.

Boil three ounces of the shavings, or chips of logwood, in four pints of water, till one half the liquor is walted. Two or three ounces of simple cinnamon-water may be added to this decoction.

In fluxes of the belly, where the stronger astringents are improper, a teacupful of

this decoction may be taken with advantage three or four times a-day.

Decoction of the Bark.

Boil an ounce of the Peruvian bark, grossly powdered, in a pint and a half of water to one pint; then strain the decoction. If a tea-spoonful of the weak spirit of vitriol be added to this medicine, it will render it both more agreeable and efficacious.

Compound Decoction of the Bark.

Take of Peruvian bark and Virginia fnake-root, grossly powdered, each three drachms. Boil them in a pint of water to one half. To the ftrained liquor add an ounce and an half of aromatic water.

Sir John Pringle recommends this as a proper medicine towards the decline of maligneut fevers, when the pulfe is low, the voice weak, and the head affected with

a stupor but with little delirium.

The dose is four spoonfuls every fourth or fixth hour.

Decoction of Sarfuparilla.

Take of fresh farfaparilla root, it and bruned, two ounces; shavings of gualatum wood, one ounce. Boil over a flow fire, in three quarts of water, to one; adding towards the end, half an ounce of fassaras wood, and three drachms of liquorice. Stram the decoction.

This may either be employed as an affiftant to a course of mecurial alteratives, or taken after the mercury has been used for some time. It strengthens the fromach, and restores shesh and vigour to habits emaciated by the venereal disease. It may also be taken in the rheumatism, and cutaneous disorders proceeding from soulness of the blood and juices. For all these intentions it is greatly prescrable to the Decostions of Woods.

This decoction may be taken, from a pint and a half to two quarts in the day. The following decoction is faid to be fimilar to that used by Kennedy, in the cure

of the venereal difease, and may supply the place of the Lisbon diet drink:

Take of farfaparilla, three ounces; liquorice and mezerion root, of each half an ounce; crude antimony, powdered, an ounce and a half. Infuse these ingredients in eight pints of boiling water for twenty-four hours, then boil them till one half of the water is confirmed; afterwards strain the decoction.

This decoction may be used in the same manner as the preceding.

Decoction of Seneka.

Take of seneka rattle-snake root, one ounce; water, a pint and a half. Boil to

one pint, and strain.

This decoction is recommended in the pleurify, dropfy, rheumatifm, and fome obstinate disorders of the skin. The dose is two ounces, three or four times a-day, or oftner, if the stomach will bear it.

White Decoction:

Take of the purest chalk, in powder, two ounces; gum arabic, half an ounce;

water, three pints. Boil to one quart, and strain the decoction.

This is a proper drink in acute diseases, attended with, or inclining to a looseness, and where acidities abound in the flomach, or bowels. It is peculiarly proper for children when afflicted with fourness of the ftomach, and for persons who are surject to the heartburn. It may be sweetened with sugar, as it is used, and two or three ounces of fimple cinnamon water added to it.

An ounce of powdered chalk, mixed with two pints of water, will occasionally

supply the place of this decoction, and also of the chalk julep.

DRAUGHTS.

HIS is a proper form for exhibiting fuch medicines as are intended to operate immediately, and which do not need to be frequently repeated; as purges, vomits, and a few others, which are to be taken at one dofe. Where a medicine requires to be used for any length of time, it is better to make up a larger quantity of it at once, which faves both time and expense.

Anodyne Draughts

Take of liquid laudanum, twenty-ave drops; fimple cinnamon-water, an ounce; Mix them. common fyrup, two drachms

In excessive pain, where bleeding is not necessary, and in great restlessness, this compoling draught may be taken and repeated occasionally.

Diuretic Draught.

Take of the diuretic falt, two scruples; syrup of poppies, two drachms; simple cinnamon-water, and common water, of each an ounce.

This draught is of fervice in an obstruction or desciency of arine.

Purging Draughts.

Take of manna, an ounce; foluble tartar, or Rochel falt, from three to four drachms. Diffolve in three cunces of boiling water; to which add Jamaica pepperwater, half an ounce.

As manna foractiones will not fit upon the flomach, an ounce or ten drachms of the purging falts, diffolved in four ounces of water, may be taken instead of the above.

Those who cannot take falts may use the following draught:

Take of jalep in powder, a feruple; common water, an ounce; aromatic tincture, fix drachms. Rub the jalap with twice its weight of fugar, and add to it the other ingredients.

Sweating Draught.

Take fpirit of Mindercrus, two ounces; falt of hartfhorn, five grains; fimple channels and fyrup of poppies, of each half an ounce. Make them into a

In recent colds and rheumatic complaints, this draught is of fervice. To promote its effects, however, the parient ought to drink freely of warm water-gruel, or of some other weak diluting liquor,

Vomiting Draughts.

Take of ipecacuanha, in powder, a feruple; water, an ounce; fimple fyrup, a drachm. Mix them.

Perfons who require a flronger vomit, may add to the above half a grain, or a

grainof emetic tartar.

Those who do not chuse the powder, may take ten drachms of the ipecacuanha wine; or half an ounce of the wine, and an equal quantity of the syrup of squills.

ELECTUARIES.

TLECTUARIES are generally composed of the lighter powders, mixed with fyrup, honey, conserve, or mucilage, into such a consistence that the powders may neither separate by keeping, not the mass prove too stiff for swallowing. They receive chiefly the milder alteratives medicine, and such as are not ungrateful to the palate.

Aftringent electuaries, and fuch as have pulps of fruit in them, should be prepared only in small quantities; as aftringent medicines lose their virtues by being kept

in this form, and the pulps of fruits are apt to ferment.

For the extraction of pulps it will be necessary to boil unripc fruits, and ripe ones if they are dried, in a small quantity of water till they become soft. The pulp is then to be pressed out through a strong hair sieve, or thin cloth, and afterwards boiled to a due consistence, in an earthen vessel, over a gentle fire, taking care to prevent the matter from burning by continually stirring it. The pulps of fruits that are both ripe and fresh may be pressed out without any previous boiling.

Lenitive Electuary.

Take of fenna, in fine powder, eight ounces; coriander feed, also in powder, four ounces; pulp of tamarinds and of French prunes, each a pound. Mix the pulps and powders together, and with a sufficient quantity of simple syrup, reduce the whole into an electuary.

A tea-spoonful of this electuary, taken two or three times a-day, generally proves an agreeable laxative. It likewise serves as a convenient vehicle for exhibiting more

active medicines as jalaps, scammony, and such like.
This may supply the place of the electuary of Cassia.

Electuary for the Dyfentery.

Take of the Japonic confection, two ounces; Locatelli's balfam, one ounce; rhubarb, in powder, half an ounce; fyrup of marfhmallows, enough to make an electuary.

It is often dangerous in dysenteries to give opiates and astringents, without interposing purgatives. The purgative is here joined with these ingredients, which renders this a very safe and useful medicine for the purposes expressed in the title.

About the bulk of a nutmeg should be taken twice or thrice a-day, as the symptoms and constitution may require.

Electuary for the Epilepsy.

Take of Peruvian bark, in powder, an ounce; of powdered tin, and wild valearan root, each half an ounce; fimple fyrup, enough to make an electuary.

Dr. Mead directs a drachm of an electuary fimilar to this to be taken evening and morning, in the epilepfy, for the space of three months. It will be proper, however, to discontinue the use of it for a sew days every now and then. I have added the powdered tin, because the epilepsy often proceeds from worms.

Electuary for the Gonorrhaa.

Take of lenitive electuary, three ounces; jalap and rhubarb, in powder, of each two drachms; nitre, half an ounce; fimple fyrup, enough to make an electuary.

During the inflammation and tention of the urmary passages, which accompany a virulent genorrhea, this cooling laxative may be used with advantage.

The dose is a drachm, or about the bulk of a nutmeg, two or three times a-day; more or lefs, as may be neceffary to keep the body gently open.

An electuary made of cream of tartar and fimple fyrup will occasionally supply the

place of this. After the inflammation is gone off, the following electuary may be used:

Take of lenitive electuary, two ounces; balfam of capivi, one ounce; gum guaiacum and rhuburb, in powder, of each two drachms; finiple syrup, enough to make an electuary. The dose is the same as of the preceding.

Eleduary of the Bark.

Take of Peruvian bark, in powder, three ounces; cafcarilla, half an ounce; fy-

rup of ginger, enough to make an electuary.

In the cure of obstinate intermitting severs, the bark is assisted by the cascarilla. In hectic habits, however, it will be better to leave out the cafcarilla, and put three drachms of crude fal ammoniac in its stead.

Electuary for the Piles.

Take flowers of fulphur, and ounce; cream of tartar, half an ounce; treacle, a fufficient quantity to form an electivary.

A tea-spoonful of this may be taken three or four times a day.

Electuary for the Palfy.

Take of powdered mustard-feed, and conferve of roses, each an ounce; syrup of ginger, enough to make an electuary.

A tea-spoonful of this may be taken three or four times a-day.

Electuary for the Rheumatism.

Take of conferve of rofes, two ounces; cinnabar of antimony, levigated, an ounce and a half; gum guaiacum, in powder, an ounce; fyrup of ginger, a sufficient

quantity to make an electuary.
In obstinate rheumatisms, whi hare not accompanied with a sever, a tea-spoonful

of this electuary may be taken twice a-day with confiderable advantage.

EMULSIONS.

EMULSIONS, befide their use as medicines, are also proper vehicles for certain substances, which could not otherwise be conveniently taken in a liquid form. Thus camphor, triturated with almonds, readily unites with water into an emulsion, Pure oils, balfams, refins, and other fimilar fubitances, are likewife rendered nifcible with water by the intervention of mucilages.

Common Emulsion.

Take of fweet almonds, an ounce; bitter almonds, a drachm; water two pints. Let the almonds be blanched, and beat up in a marble mortar; adding the water by little and little, so as to make an emulsion; afterwards let it be strained.

Arabic Emulsion.

This is made in the fame manner as the above, adding to the almonds, while beating, two ounces and a half of the mucilage of gum arabic.

Where fost cooling liquors are necessary, these emulsions may be used as ordinary

Camphorated Emulsion.

Take of camphor, half a drachm; fweet almonds, half a dozen; white fugar, half an ounce, mint water, eight ounces. Grind the camphor and almonds well together in a flone mortar, and add by degrees the mint water; then strain the liquor, and dissolve in it the sugar.

In fevers, and other diforders which require the use of camphor, a table-spoonful

of this emulsion may be taken every two or three hours.

Emulsion of Gum Ammoniac.

Take of gum ammoniae, two drachms; water, eight ounces. Grind the gum with the water poured upon it by little and little, till it is diffolved.

This emultion is used for attenuating tough, viscid phiegm, and promoting expectation. In obstinate coughs, two ounces of the syrup of poppies may be added to it. The dofe is two table-spoonfuls three or sour times a-day.

Oily Emulsion.

Take of foft water, fix ounces; volatile aromatic spirit, two drachms; Florence oil, an ounce; shake them well together, and add, of simple syrup, half an ounce.

In recent colds and coughs this emulsion is generally of service; but if the cough proves obflinate, it will fuc eed better when made with the paregoric elixir of the Edinburgh Dispensatory, instead of the volatile aromatic spirit. A table-speonful of it may be taken every two or three hours.

EXTRACTS.

EXTRACTS are prepared by boiling the subject in water, and evaporating the frained eccoction to a due confistence. By this process some of the more active parts of plants are freed from the useless, indisfoluble earthy matter, which makes the larger share of their bulk. Water, however, is not the only mensiruum used in the preparation of extracts; sometimes it is joined with spirits, and at other times rectified spirit alone is employed for that purpose.

Extracts are prepared from a variety of different drugs, as the bark, gentian, jalaps, &c.: but as they require a troublesome and tedious operation, it will be more convenient for the private practitioner to purchase what he needs of them from a professee druggist, than to prepare them himself. Such of them as are generally used are inserted in our lift of such drugs and medicines as are to be kept for private practice.

FOMENTATIONS.

COMENTATIONS are generally intended either to ease pain, by taking off tenfion and spasm, or to brace and restore the tone and vigour of those parts to which they are applied. The first of these intentions may generally be answered by warm water, and the fecond by cold. Certain substances, however, are usually added to water, with a view to heighten its effects, as anodynes, aromatics, astringents, &c. We shall therefore subjoin a few of the most useful medicated somentations, that pcople may have it in their power to make use of them if they choose.

Anodyne Fomentation.

Take of white poppy-heads, two ounces; elder flowers, half an ounce; water, three pints. Boil till one pint is evaporated, and strain out the liquor. This fomentation, as its title expresses, is used for relieving acute pain.

Aromatic Fomentation.

Take of Jamaica pepper, half an ounce; rea wine, a pint. Boil them for a little,

and then strain the liquor.

This is intended, not only as a topical application for external complaints, but also for relieving the internal parts. Pains of the howels, which accompany dysenteries and diarrhoas, fl tulent colics, uneafines of the stomach, and reachings to vomit, are frequently abated by fomenting the abdomen and region of the flomach with the warm liquor.

Common Fomentation.

Take tops of wormwood and camomile flowers, dried, of each two ounces; wa-

ter, two quarts. After a flight boiling, pour off the liquor

Brandy or spirit of wine may be added to this fomentation, in such quantity as the particular circumstances of the case shall require; but these are not always necessary.

Emollient Fomentation.

This is the fame as the common decoction.

Strengthening Fomentation.

Take of oak bark, one ounce; granate peel, half an ounce; alum, two drachms; finith's forge water, three pints. Boil the water with the bark and prel to the confumption of one-third; then firsin the decoction, and dissolve it in alum.

This aftringent liquor is employed as an external fomentation to weak parts; it

may also be used internally.

GARGLES.

HOWEVER trifling this class of medicines may appear, they are by no means without their use. They seldom indeed cure diseases, but they often alleviate very disagreeable symptoms; as parchedness of the mouth, foulness of the tongue and fauces, &c. they are peculiarly useful in fevers and fore throats. In the latter, a gargle will fometimes remove the diforder; and in the former, few things are more refreshing or agreeable to the patient, than to have his mouth frequently washed with some soft detergent gargle.

One advantage of these medicines is, that they are easily prepared. A little barleywater and honey may be had any where; and if to these be added as much vinegar as will give them an agreeable sharpness, they will make a very useful gargle for

foftning and cleanfing the mouth.

Gargles have the best effect when injected with a fyring.

Attenuating Gargle.

Take of water, fix ounces; honey one ounce; nitre, a drachm and a half. Mix theni.

This cooling gargle may be used either in the inflammatory quinfey, or in fevers, for cleaning the tongue and fauces.

Common Gargle.

Take of rose-water, fix ounces; syrup of clove July-flowers, half an ounce; spirit of vitriol, a sufficient quantity to give it an agreeable sharpness. Mix them.

This gargle, befides cleanfing the tongue and fauces, acts as a gentle repellant, and will fometimes remove a flight quinfey.

Detergent Gargle.

Take of the emollient gargle, a pint; tincture of myrrh, an ounce; honey, two ounces. Mix them.

When exulcerations require to be cleanfed, or the excretion of tough viscid faliva promoted, this gargle will be of ferrice.

Emollient Gargle.

Take an ounce of marshmallow roots, and two or three figs; boil them in a quart

of water till near one half of it be confumed; then frain out the liquor.

If an ounce of honey, and an half an ounce of spirit of sal-ammoniac, be added to the above it will then be an exceeding good attenuating gargle.

This gargle is beneficial in fevers, where the tongue and sauces are rough and parallely that the same and respect to the same and sauces are rough and parallely same and sauces are rough and sauces are rough

ched, to soften these parts, and promote the discharge of saliva.

The learned and accurate Sir John Pringle observes, that in the imflammatory quinsey, or strangulation of the sauces, little benefit arises from the common gargles that fuch as are of an acid nature do more harm than good, by contracting the emunctories of the faliva and mucus, and thickening those humours; that a decoction of figs in milk and water has a contrary effect, especially if some fal ammoriae be added; by which the faliva is made thinner, and the glands brought to fecrete more freely; a circumstance always conducive to the cure.

INFUSIONS.

TEGETABLES yield nearly the same properties to water by infusion as by de-V coction; and though they may require a longer time to give out their virtues in this way, yet it has several advantages over the other; since boiling is found to diffipate the finer parts of many bitter and aromatic fubstances, without more fully

extracting their medicinal principles.

The author of the New Dilpenfatory observes, that even from those vegetables which are weak in virtue, rich infusions may be obtained, by returning the liquor upon fresh quantities of the subject, the water loading itself more and more with the active parts; and that these loaded insusions are applicable to valuable purposes in medicine, as they contain in a small compass, the finer, more subtile, and active principles of vegetables, in a form readily miscible with the sluids of the human bo-

Bitter Infusion.

Take tops of the leffer centaury and camomile flowers, of each balf an ounce; yellow rind of lemon and orange peel, carefully freed from the inner white part, of each two drachms. Cut them in small pieces, and infuse them in a quart of boiling

For indigestion, weakness of the stomach, or want of appetite, a tea-cupful of this

infusion may be taken twice or thrice a day.

Infusion of the Bark.

To an ouuce of the bark, in powder, add four or five table-spoonfuls of brandy,

and a pint of boiling water. Let them infuse for two or three days.

This is one of the best preparations of the bark for weak stomachs. In disorders where the corroborating virtues of that medicine are required, a tea-eupful of it may be taken two or three times a -day.

Infusion of Carduus.

Infuse an ounce of the dried leaves of cardnus benedictus, or blessed thistle, in a pint of common water, for fix hours, without heat; then filter the liquor through

paper.

This light infufiou may be given, with great benefit, in weakness of the fromach.

It may be flavoured at pleasure with einwhere the common bitters do not agree. It may be flavoured at pleasure with ein-

namon, or other aromatic materials.

Infusion of Linseed.

Take of linfeed, two spoonfuls; liquorice root, sliced half an ounce; boiling water, three pints. Let them thand to infuse by the fire for some hours, and then

strain off the liquor. If an ounce of the leaves of colt's-foot be added to these ingredients, it will then be the pectoral infusion. Both these are emollient mucilaginous liquors, and may be tahen with advantage as ordinary drink in difficulty of making water; and in coughs

and other complaints of the breaft.

Infusion of roses.

Take of red rofes, dried, half an ounce; boiling water, a quart; vitriolic acid, commonly called oil of vitriol, half a drachm; loaf fugar, en ounce.

Infuse the roses in the water four hours, in an unglazed earthen veffel; after-

wards pour in the acid, and having strained the liquor, add to it the sugar. In an excessive flow of the menses, vomiting of blood, and other hamorrhages, a tea-cupful of this gently aftringent infusion may be taken every three or four hours. It likewise makes an exceeding good gargle.

As the quantity of roses used here can have little or no effect, an equally valuable

medicine may be prepared by mixing the acid and water without infusion,

Infusion of Tamarinds and Senna.

Take of tamarinds, one ounce; fenna, and crystals of tartar, each two drachms. Let these ingredients be infused four or five hours in a pint of boiling water; after. wards let the liquor be strained, and an ounce or two of the aromatic tin cture added to it. Persons who are easily purged may leave out either the tamarinds or the crystals of tartar.

This is an agreeable cooling purge. A tea-cupful may be given every half hour

till it operates.

This supplies the place of the decoction of tamarinds and senna.

Spanish Infusion.

Take of Spanish juice, cut into small pieces, an ounce; salt of tartar, three drachms. Insuse in a quart of boiling water for a night. To the strained liquor add an ounce and an half of the fyrup of poppies.

In recent colds, coughs, and obstructions of the breast, a tea-cupful of this infusion

may be taken with advantage three or four times a-day.

Infusion for the Palley.

Take of horse-radish root shaved, mustard feed bruised, each four ounces; outer rind of orange peel, one ounce. Insufe them in two quarts of boiling water, in a close vessel, for twenty-four hours.

In paralytic complaints, a tea-cupful of this warm fimulating medicine may be taken three or four times a-day. It excites the action of the folids, proves diuretic,

and, if the patient be kept warm, promotes perspiration.

If two or three ounces of the dried leaves of marsh-tresoil be used instead of the mustard, it will make the antiscorbutic infusion.

JULEPS.

THE basis of juleps is generally common water, or some simple distilled water, with one-third or one-fourth its quantity of distilled spirituous water, and as much sugar or syrup as is sufficient to render the mixture agreeable. This is sharpened with vegetable or mineral acids, or impregnated with other medicines suitable to the

Camphorated Julep.

Take of camphor, one drachm; gum arabic, half an ounce; double refined fugar, an ounce; vinegar a pint. Grind the camphor with a few drops of rectified spirit of wine till it grows soft; then add the gum, previously reduced to a nucilage with equal its quantity of water, and rub them together till they are perfectly united. To this mixture add, by little and little, the vinegar with the sugar dissolved in it, still continuing the trituration.

In hysterical and other complaints where camphor is proper, this julep may be ta-

ken in the dose of a spooful or two as often as the stomach will bear it.

Cordial Julep.

Take of simple cinnamon-water, four ounces; Jamaica pepper-water, two ounces; volatile aromatic spirit, and compound spirit of lavender, of each two drachms; syrup of orange-peel, an ounce. Mix them.

This is given in the dose of two spoonfuls three or sour times a-day, in disorders

accompanied with great weakness and depression of spirits.

Expedorating Julep.

Take of the emulsion of gum ammoniac, six ounces; syrup of squills, two cunces.

In coughs, afthmas, and obstructions of the breast, two table spoonfuls of this jules may be taken every three or four hours.

Musk Julep.

Rub half a drachm of musk well together with half an ounce of sugar, and add to it, gradually, of fimple cinnamon and pepper-mint water, each two ounces; of the volatile aromatic spirit, two drachms.

In the low state of nervous fevers, hiccopping, convulsions, and other spasmodic affections, two table-spoonfuls of this julep may be taken every two or three hours.

Saline Julep.

Dissolve two drachms of falt of tartar in three ounces of fresh lemon-juice, strained when the effervescence is over, add, of mint-water, and common water, each two ounces; of fimple fyrup, one ounce.

This removes fickness at the flomach, relieves vomiting, promotes perspiration,

and may be of some fervice in fevers, especially of the inflammatory kind.

Vomitting Julep.

Distiolve four grains of emetic tartar in eight ounces of water, and add to it half

In the beginning of fevers, where there is no topical inflammation, this julep may be given in the dose of one table-spoonful every quarter of an hour till it operates. Antimonial vomits serve not only to evacuate the contents of the stomach, but likewise to promote the different execrations. Hence they are found in severs to have nearly the same essects as Dr. James's Powder.

MIXTURES.

MIXTURE differs from a julep in this respect, that it receives into its composition not only falts, extracts, and other substances dissoluble in water, but also earths, powders, and such substances as cannot be dissolved. A mixture is seldom an agreeable medicine. It is nevertheless necessary. Many persons can take mixture, who are not able to swallow a bolus or an electuary: besides, there are medicines which all better in this than in any other form.

Astringent Mixture.

Take simple cinnamon-water and common water, of each three ounces; spirituous cinnamon-water, one ounce and a half; Japonic confection, half an ounce. Mix

In dyfenteries which are not of long standing, after the necessary evacuations, a spoonful or two of this mixture may be taken every four hours, interpoling every second or third day a dose of rhubarb.

Diuretic Mixture.

Take of mint-water, five ounces; vinegar of squills, fix drachms; fweet spirit of nitre, half an ounce; fyrup of ginger, an ounce and a half. Mix them.

In obstructions of the urinary passages, two spoonfuls of this mixture may be taken

twice or thrice a-day,

Laxative Absorbent Mixture.

Ruh one drachm of magnefia alba in a mortar with ten or twelve grains of the best Turkey thubarb, and add to them three ounces of common water; fimple citinamonwater, and fyrup of fugar, of each one ounce.

As most diseases of infants are accompanied with acidities, this mixture may cither be given with a view to correct these, or to open the body. A table spoonful may be taken for a dofe, and repeated three times a-day. To a very young child half a spoonful will be sufficient.

When the mixture is intended to purge, the dose may either be increased, or the quantity of rhubarb doubled.

This is one of the most generally useful medicines for children with which I am

acquainted.

Saline Mixture.

Diffolve a drachm of the falt of tartar in four ounces of boiling water; and, when cold, drop into it, spirit of vitriol, till the effervescence ceases; then add, of peppermint-water, two ounces, fimple fyrup, one ounce.

Where fresh lemons cannot be had, this mixture may occasionally supply the place

of the faline julep.

Squill Mixture.

Take of simple cinnamon-water, five ounces; vinegar of squills, one ounce; syrup

of marshmallows, an ounce and a half. Mix them.

This mixture, by promoting expectoration, and the fecretion of urine, proves ferviccable in afthmatic and dropfical habits. A table-spoonful of it may be taken fre-

OINTMENTS, LINIMENTS, AND CERATES.

NOTWITHSTANDING the extravagant encomiums which have been beflowed on different preparations of this kind, with regard to their efficacy in the cure of wounds, fores, &c. it is beyond a doubt, that the most proper application to a green wound is dry lint. But though ointents do not heal wounds and fores, yet they ferve to defend them from the external air, and to retain fuch fubfiances as may be necessary for drying, deterging, destroying proud slesh, and such-like. For these purposes, however, it will be sufficient to infert only a few of the most simple forms, as ingredients of a more active nature can occasionally be added to them.

Yellow Basilicum Ointment.

Take of yellow wax, white refin, and frankincenfe, each a quarter of a pound: melt them together over a gentle fire; then add, of hogs'-lard prepared, one bound. Strain the ointment while warm.

This ointment is employed for cleanfing and healing wounds and ulcers.

Ointment of Calamine.

Take of olive oil, a pint and a half; white wax, and calamine stone, levigated, of each half a pound. Let the calamine Rone, reduced into a fine powder, be rubbed with fome part of the oil, and afterwards added to the reft of the oil and wax, previously melted together, continually stirring them till quite cold.

This ointment, which is commonly known by the name of Turner's Cerate, is an

exceeding good application in burns and excoriations, from whatever caufe.

Emollient Ointment.

Take of palm oil, two pounds; olive oil, a pint and a half; yellow wax, half a pound; Venice turpentine, a quarter of a pound. Melt the wax in the oils over a gentle fire; then mix in the turpentine, and strain the ointment.

This supplies the place of Althea Ointment. It may be used for anointing inflamed

parts, &c.

Eye Ointments.

Take, of hogs'-lard prepared, four ounces; white wax, two drachns; tutty prepared, one ounce; melt the wax with the lard, over a gentle fire, and then fprinkle in the tutty, continually firring them till the ointment is cold.

This ointment will be more efficacious, and of a better confidence, if two or three drachms of camphor be rubbed up with a little oil, and intimutely mixed with it.

Another.

Take of camphor, and columne flone levigated, each fix drachms; verdegreafe Take of camphor, and Chilo he tione levigated, each its drachins; verdegreate well prepared, two drachins; hogs-lard, and mutton fuet prepared, of each two ounces. Rub the camphor well with the powder; afterwards mix is the lard and fact, continuing the triture till they be perfectly united.

This ointment has been long in efteem for difeafes of the eyes. It ought, however,

to be used with caution, when the eyes are much inflamed, or very tender.

Issue Ointment.

Mix half an ounce of Spanish flies, finely powdered, in six ounces of yellow basilicum ointment.

This ointment is chiefly intended for dreffing blifters, in order to keep them open during pleasure.

Ointment of Lead.

Take of olive oil, half a pint; white wax, two ounces, fugar of lead three drachms. Let the fugar of lead, reduced into a fine powder, be rubbed up with fome part of the oil, and afterwards added to the other ingredients, previously melted together, continually stirring them till quite cold.

This cooling and gently aftringent ointment may be used in all cases where the

intention is to dry and skin over the part, as in fealding, &c.

Mercurial Ointment.

Take of quickfilver, two ounces; hogs'-lard, three ounces; mutton fuet, one ounce. Rub the quickfilver with an ounce of the hogs'-lard, in a warm mortar, till the glohules be perfectly extinguished; then rub it up with the rest of the lard and suct, previoufly melted together.

The principal intention of this ointment is to convey mercury into the body by

being rubbed upon the fkin.

Ointment of Sulphur.

Take of hogs'-lard prepared, four ounces; flowers of fulphur, an ounce and a half; crude fal ammoniae, two drachms; effence of lemon, ten or twelve drops. Make them into an ointment.

This ointment rubbed upon the parts affected, will generally cure the itch. It is both the fafest and best application for that purpose, and, when made in this way,

has no difagreeable fmell.

White Ointment.

Take of olive oil, one pint; white wax and spermaceti, of each three ounces-Melt them with a gentle heat, and keep them constantly and briskly stirring together, till quite cold.

If two drachms of camphor, previously rubbed with a small quantity of oil, be

added to the above, it will make the White campborated Ointment.

Liniment for Burns.

Take equal parts of Florence oil, or of fresh drawn linsced oil, and lime-water; thake them well together in a wide-mouthed bottle, fo as to form a liniment.

This is found to be an exceeding proper application for recent fealds or burns. It may either be spread upon a cloth, or the parts affected may be anointed with it twice or thrice a-day.

White Liniment.

This is made in the same manner as the white ointment, two-thirds of the wax being left out.

This liniment may be applied in cases of excoriation, where, on account of the largeness of the furface, the ointments with lead or calamine might be improper.

Liniment for the Piles.

Take of emollient ointment, two ounces; liquid laudanum, half an ounce. Mix these ingredients with the yolk of an egg, and work them well together.

Volatile Liniment.

Take of Florence oil, an ounce; fpirit of harshorn, half an ounce: Shake them together.

This liniment, made with equal parts of the spirit and oil, will be more efficacious,

where the patient's skin is able to bear it.

Sir John Pringle observes, that in the inflammatory quinfey, a piece of slannel moistened with this liniment, and applied to the throat, to be renewed every four or five hours, is one of the most efficacious remedies; and that it feldom fails, after bleeding, either to lessen or earry off the complaint. The truth of this observation I have often experienced.

Camphorated Oil.

Rub an ounce of camphor, with two ounces of Florence oil, in a mortar, till the camphor be entirely diffolved.

This antispasmodic liniment may be used in obstinate rheumatisms, and in

some other cases accompanied with extreme pain and tension of the parts.

PILLS.

MEDICINES which operate in a fmall dofe, and whose disagreeable taste, or small commodiously exhibited in this form. No medicine, however, that is intended to operate quickly, ought to be made into pills, as they often lie for a confiderable time on the stomach before they are dissolved, so as to produce any effect.

As the ingredients which enter the composition of pills are generally so contrived that one pill of an ordinary size may contain about five grains of the compound, in mentioning the dose, we shall only specify the number of pills to be ta-

ken; as one, two, three, &c.

Composing Pill.

Take of purified opium, ten grains; Castile soap, half a drachm. Beat them together, and form the whole into twenty pills.

When a quieting draught will not fit upon the stomach, one, two, or three of

thefe pills may be taken as occasion requires,

Fatid Pill.

Take of afasætida, half an ounce; simple syrup, as much as is necessary to form it into pills.

In hysteric complaints, sour or five pills, of an ordinary fize, may be taken twice or thrice a-day. They may likewise be of service to persons afflicted with

the althma.

When it is necessary to keep the body open, a proper quantity of rhubarb, aloes, or jalap, may occasionally be added to the above mass.

Hemlock Pill.

Take any quantity of the extract of hemlock, and adding to it about a fifth part of its weight of the powder of the dried leaves, form it into pills of the ordinary

The extract of hemlock may be taken from one grain to feveral drachms in the day. The best method, however, of using these pills, is to begin with one or two, and to increase the dose gradually, as far as the patient can bear them, without any remarkable degree of supportor giddiness.

Mercurial Pill.

Take of purified quickfilver and honey, each half an ounce. Rub them together in a mortar till the globules of mercury are perfectly extinguished; then add, of Castile foap, two drachms, powdered liquorice, or crumb of bread, a sufficient quantity to give the mass a proper consistence for pills.

When stronger mercurial pills are wanted, the quantity of quicksilver may be

The dose of these pills is different, according to the intention with which they are given. As an alterant, two or three may be taken daily. To raife a fallivation four or five will be necessary.

Equal parts of the above pill and powdered rhubarb made into a mass, with a

fufficient quantity of simple syrup, will make a Mercurial purging Pill.

Mercurial sublimate Pill.

Diffolve fifteen grains of the corrofive fublimate of mercury in two drachms of the faturated folution of crude fal ammoniac, and make it into a paste, in a glass mortar, with a fufficient quantity of the crumb of bread. This mass must be form-

ed into one hundred and twenty pills.

This pill, which is the most agreeable form of exhibiting the sublimate, has been found efficacious, not only in curing the venereal disease, but also in killing

and expelling worms, after other powerful medicines have failed.

For the venereal difease, four of these pills may be taken twice a-day, as an alterant three, and for worms two.

Plummer's Pill.

Take of calomel, or fweet mercury, and precipitated fulphur of antimony, each three drachms; extract of liquorice, two drachms. Rub the fulphur and mercury well together; afterwards add the extract, and, with a fufficient quantity of the

mucilage of gum arabic, make them into pills.

This pill has been found a powerful, yet fafe, alterative in obstinate cutaneous diforders; and has completed a cure after a falivation had failed. In venereal cafes it has likewife produced excellent effects. Two or three pills of an ordinary fize may be taken night and morning, the patient keeping moderately warm, and drinking after each dose a draught of decoction of the woods, or of farfaparilla.

Purging Pills.

Take of fuccotorine aloes, and Castile soap, each two drachms; of simple syrup,

a fufficient quantity to make them into pills.

Four or five of these pills will generally prove a sufficient purge. For keeping the body gently open, one may be taken night and morning. They are reckoned both deobstruent and stomachic, and will be found to answer all the purposes of Dr. Anderson's pills, the principal ingredient of which is aloes.

Where aloetic purges are improper, the following pills may be used:

Take extract of jalap, and vitriolated tartar, of each two drachms; fyrup of ginger, as much as will make them of a proper confiftence for pills.

These pills may be taken in the same quantity as the above.

Pill for the Jaundice.

Take of Castile foap, succetorine aloes, and rhubarb, of each one drachm. Make them into pills with a sufficient quantity of syrup or mucilage. These pills, as their title expresses, are chiefly intended for the jaundice, which,

with the affifiance of proper diet, they will often cure. Five or fix of them may be taken twice a-day, more or lefs, as is necessary to keep the body open. It will be proper, however, during their use, to interpose now and then a vomit of ipecacuanha or tartar emetic.

Stomachic Pill.

Take extract of gentian, two drachms; powdered rhubarb and vitriolated tartar, of each one drachm; oil of mint, thirty drops; simple fyrup, a sushcient guantity.

Three or four of these pills may be taken twice a-day, for invigorating the stomach, and keeping the body gently open.

Squill Pills.

Take powder of dried squills, a draclim and a half; gum ammoniae, and cardamom seeds, in powder, of each three drachms; simple syrup, a sufficient quantity.

In dropfical and afthmatic complaints, two or three of these pills may be taken twice a day, or oftner, if the stomach will bear them.

Strengthening Pill.

Take fost extract of the bark, and falt of steel, each a drachm. Make into pills. In disorders arising from excessive debility, or relaxation of the solids, as the chlorosis, or green sickness, two of these pills may be taken three times a-day.

PLAISTERS.

PLAISTERS ought to be of a different confiftence, according to the purposes for which they are intended. Such as are to be applied to the breasts or stomach ought to be soft and yielding; while those designed for the limbs should be firm and adhesive.

It has been supposed, that plaisters might be impregnated with the virtues of different vegetables, by boiling the recent vegetable with the oil employed for the composition of the plaister; but this treatment does not communicate to the

oils any valuable qualities.

The ealers of lead boiled with oils unite with them into a plaifter of a proper confiftence, which makes the bails of feveral other plaifters. In boiling these compositions, a quantity of hot water must be added from time to time to prevent the plaifter from burning or growing black. This, however, should be done with care, lest it cause the matter to explode.

Common Plaister.

Take of common olive oil, fix pints; litharge reduced to a fine powder, two pounds and a half. Boil the litharge and oil together over a gentle fire, continually firring them, and keeping always about half a gallon of water in the veffel; after they have boiled about three hours, a little of the plaifter may be taken out and put into cold water, to try if it be of a proper confiftence: when that is the cafe, the whole may be fuffered to cool, and the water well preffed out of it with the hands.

This plaister is generally applied in slight wounds and exceriations of the skin. It keeps the part fost and warm, and defends it from the air, which is all that is necessary in such cases. Its principal use, however, is to serve as a basis for other

plaisters.

Adhesive Plaister.

Take of common plaister, half a pound; of Burgundy pitch, a quarter of a pound, Melt them together.

This plaister is principally used for keeping on other dressings.

Anodyne Plaister.

Melt an ounce of adhefive plaifter, and, when it is cooling, mix with it a drachm of powdered opium, and the fame quantity of camphor, previously rubbed up with a little oil.

This plaister generally gives case in acute pains, especially of the nervous

kind.

Blistering Plaister.

Take of Venice turpentine, fix ounces; yellow wax, two ounces; Spanish flies in fine powder, three ounces; powdered mustard, one ounce. Melt the wax, and

while it is warm, add to it the turpentine, taking care not to evaporate it by too much heat. After the turpentine and wax are fufficiently incorporated, fprinkle

in the powders, continually flirring the mass till it be cold.

Though this plaister is made in a variety of ways, one feldom meets with it of a proper consistence. When compounded with oils and other greafy substances, its essentials are blunted, and it is apt to run; while pitch and resin render it too hard and very inconvenient.

When the histering plaister is not at hand, its place may be supplied, by mixing, with any fost ointment, a sufficient quantity of powdered slies; or, by form-

ing them into a paste, with flour and vinegar.

Gum Plaisler.

Take of the common plaister, four pounds; gum ammoniae and galbanum, strained, of each half a pound. Melt them together, and add, of Venice turpentine, fix ounces.

This plaister is used as a digestive, and likewise for discussing indolent tumours.

Mercurial Plaister.

Take of common plaister, one pound; of gum ammoniac, strained, half a pound, melt them together, and, when cooling, add eight ounces of quek-silver, previously extinguished by triture, with three ounces of hog's lard.

This plaister is recommended in pains of the limbs arising from a venereal cause. Indurations of the glands, and other violent tumours, are likewise found some-

times to yield to it.

Stomach Plaister.

Take of gum plaister, half a pound; camphorated oil, an ounce and a half; black pepper, or capsicum, where it can be had, one ounce. Melt the plaister, and mix with it the oil; then sprinkle in the pepper, previously reduced to a fine powder.

An ounce or two of this plaister, spread upon soft leather, and applied to the region of the stomach, will be of service, in flatulencies arising from hysteric and hypochondriae affections. A little of the expressed oil of mace, or a few drops of the effential oil of mint, may be rubbed upon it before it is applied.

This may supply the place of the Antiliysteric Plaister.

Warm Plaister.

Take of gum plaister, one ounce; blistering plaister, two drachms. Melt them

together over a gentie fire.

This plaister is useful in the sciatica, and other fixed pains of the rheumatic kind: it ought, however, to be worn for some time, and to be renewed, at least once a-week. If this is found to blister the part, which is sometimes the case, it must be made with a smaller proportion of the blistering plaister.

Wax Plaister.

Take of yellow wax, one pound; white refin, half a pound; mutton fuet, three quarters of a pound. Melt them together.

This is generally used instead of the Melliot Plaister. It is a proper application after blifters, and in other cases where a gentle digestive is necessary.

POWDERS.

THIS is one of the most simple forms in which medicine can be administered.

Many medicinal substances, however, cannot be reduced into powder, and others are too disagreeable to be taken in this form.

The lighter powders may be mixed in any agreeable, thin liquor, as tea or water-gruel. The more ponderous will require a more confident vehicle, as fyrup,

conferve, jelly, or honcy.

Gums, and other subflances which are difficult to powder, should be pounded

along with the drier ones; but those which are too dry, especially aromatics, ought to be sprinkled, during their pulverization, with a few drops of any pro-

per water.

Aromatic powders are to be prepared only in finall quantities at a time, and kept in glass vessels, closely stopped Indeed, no powders ought to be exposed to the air or kept too long, otherwise their virtues will be, in a great measure, destroyed.

Astringent Powder.

Take of alum and Japan earth, each two drachms. Pound them together, and divide the whole into ten or twelve dofes.

In an immoderate flow of the menses, and other hamorrhages, one of these powders may be taken every hour, or every half hour, if the discharge be violent.

Powder of Bole.

Take of bole armenic, or French bole, two ounces; cianamon, one onnce; tormentil root and gum arabic, of each fix drachms; long pepper, one drachm. Let all these ingredients be reduced into a powder.

This warm, glutinous, aftringent powder, is given in fluxes, and other diforders where medicines of that class are necessary, in the dose of a scruple, or half a

drachm.

If a drachm of opium be added, it will make the powder of bole with opium, which is a medicine of confiderable efficacy. It may be taken in the fame quantity as the former, but not above twice or thrice a day.

Carminative Powder.

Take of coriander-feed, half an ounce; ginger, one drachm; nutmegs, half a drachm; fine fugar, a drachm and a half. Reduce them into powder for twelve dofes.

This powder is employed for expelling flatulencies arising from indigestion, par ticularly those to which hysteric and hypochondriac persons are so liable. It may likewise be given in small quantities to children in their food, when troubled with gripes.

Diuretic Powder.

Take of gum arabic, four ounces; purified nitre, one ounce. Pound them together, and divide the whole into twenty-four doses.

During the first stage of the venereal disease, one of these cooling powders may be taken three times a-day, with confiderable advantage.

Aromatic Opening Pozvder.

Take of the best Turkey rhubarb, cinnamon, and fine sugar, each two drachms. Let the ingredients be pounded, and afterwards mixed well together.

Where flatulency is accompanied with costiveness, a tea-spoonful of this pow-

der may be taken once or twice a-day, according to circumstances.

Saline Laxative Powders.

Take of foluble tartar, and cream of tartar, each one drachm; purified nitre,

half a drachm. Make them into a powder

In fevers, and other inflammatory diforders, where it is necessary to keep the Lody gently open, one of these cooling laxative powders may be taken in a little gruel, and repeated occasionally.

Steel Poruder.

Take filings of steel, and loaf-fugar, of each two ounces; ginger, two drachms. Pound them together

In obstructions of the menses, and other cases where steel is proper, a ter-

fpoonful of this powder may be taken twice a-day, and washed down with a little wine or water.

Sudorific Powder.

Take of purified nitre and vitriolated tartar of each half an ounce; opium and ipecacuanha, of each one drachm. Mix the ingredients, and reduce them to a

fine nowder

This is generally known by the name of Dover's Powder. It is a powerful fudorific. In oblimate rheumatifms, and other cafes where it is necessary to excite a copious fweat, this powder may be administered in the dose of a scruple or half a drachm. Some patients will require two scruples. It ought to be accompanied with the plentiful use of some warm diluting siquor.

Worm-Powder.

Take of tin reduced into a fine powder, an ounce; Æthiop's mineral, two

drachms. Mix them well together, and divide the whole into fix dofes.

One of these powders may be taken in a little fyrup, honey, or treacle twice aday. After they have been all used, the following anthelmintic purge may be proper.

Purging Worm-Powder.

Take of powdered rhubarb, a feruple; feammony and calomel, of each five grains. Rub them together in a mortar for one dofe.

For children, the above dofe must be lessened according to their age.

If the powder of tin be given alone, its dose may be considerably increased. The late Dr. Alston gave it to the amount of two ounces in three days, and says, when thus administered, that it proved an egregious anthelmintic. He purged his patients both before they took the powder and afterwards.

Powder for the Tape-Worm.

Early in the morning the patient is to take in any liquid, two or three drachms, according to his age and confliction, of the root of the male forn reduced into a fine powder. About two hours afterwards he is to take of calomel and refin of feanmony, each ten grains; gum gamboge, fix grains. These ingredients must be finely powdered, and given in a little syrup, honey, treacle, or any thing that is most agreeable to the patient. He is then to walk gently about, now and then drinking a dish of weak green tea, till the worm is passed. If the powder of the fern produces nausea, or sickness, it may be removed by sucking the juice of an orange or lemon.

This medicine, which had been long kept a fecret abroad for the cure of the taped worm, was fome time ago purchased by the French King, and made public for the benefit of mankind. Not having had an opportunity of trying it, I can fay nothing from experience concerning its efficacy. It feems, however, from its ingredients, to be an active medicine, and ought to be taken with care. The dose here prescribed is sufficient for the strongest patient; it must, therefore, be reduced ac-

cording to the age and constitution.

SYRUPS.

SYRUPS were feme time ago looked upon as medicines of confiderable value, They are at prefent regarded chiefly as vehicles for medicines of greater efficacy, and are used for freetening draughts, juleps, or mixtures; and for reducing the lighter powders into boluses, pills, and electuaries. As all these purposes may be answered by the simple syrup alone, there is little occasion for any other; of peci, by as they are feldom sound but in a state of fermentation; and as the dese of any medicine given in this form is very uncertain. Persons who serve the public must keep whatever their customers call for; but to the private practitioner usine-tenths of the syrups usually kept in the shops are unpecessory.

Simple Syrup

Is made by diffolving in water, either with or without heat, about double its weight of fine fugar.

If twenty-five drops of landanum be added to an ounce of the simple syrup, it will supply the place of diacodium, or the syrup of poppies, and will be found a more fale and certain medicine.

I he lubricating virtues of the fyrup of marshnallows may likewise be supplied, by adding to the common fyrup a fufficient quantity of mucilage of gum arabic.

hose who chuse to preserve the juice of lemons in form of syrup, may dissolve n it, by the heat of a warm bath, nearly double its weight of fine fugar. The Juice ought to be previously strained, and suffered to stand till it settles,

The fyrup of ginger is fometimes of use as a warm vehicle for giving medicines to perfors afflicted with flatulency. It may be made by infufing two ounces of bruifed ginger in two pints of boiling water for twoney-four hours. After the liquor has been strained, and has slood to fettle for force time, it may be poured off, and a little more than double its weight of fine powdered fugar diffolved in it.

TINCTURES, ELIXIRS, &c.

RECTIFIED spirit is the direct mensiruum of the resus and essential oilse of vegetables, and totally extracts these active principles from sundry substan-

ces, which yield them to water, either not at all, or only in part.

It dissolves likewise those parts of animal substances in which their peculiar fmells and taffes refide. Hence, the tinetures prepared with rectified spirits form an useful and clegant class of medicines, possessing many of the most effential virtues of fimples, without being clogged with their inert or ufeless parts.

Water, however, being the proper mentiruum of the gummy, faline, and faccharine parts of medicinal fubstances, it will be necessary, in the preparation of several tinctures, to make use of a weak spirit, or a composition of rectified spirit and water.

Aromatic Tinclurs.

Infale two ounces of Jamaica pepper in two pints of brandy, without heat, for a few days; then frain off the tincture.

This simple tincture will sufficiently answer all the intentions of the more could preparations of this kind. It is rather too hot to be taken by itself; but is very proper for mixing with fuch medicines as might otherwise prove too cold for the stomach.

Compound Tintiure of the Bark.

Take of Peruvian bark, two ounces; Seville orange-peel and cinnamon, of each half an onnce. Let the bark be powdered, and the other ingredients bruifed; then infufe the whole in a pint and a half of brandy, for five or fix days, in a close veffel; arterwards firain off the tincture.

I his tindure is not only beneficial in intermitting fevers, I ut also in the flow ner-

vous, and putrid kinds, especially towards their decline.

The dole is from one drachm to three or four, every fifth or fixth hour. It may be given in any fuitable liquor, and occasionally sharpened with a few drops of the spirit of vitriol.

Volatile Fatid Tinguiz.

Infuse two ounces of all societa in one plat of volar le aromatic spirit, for eight days,

in a c'ose bottle, frequently shaking it; then strain the tincture.

This medicine is beneficial in hyfteric diforders, especially when attended with lowners of spirits, and mintings. A tea-spoonful of it may be taken in a glass of wine, or a cup of penny-roya, tea.

Valatile Tintlure of Gum Guaiacum.

Take of gum gualacun , for r oupces; volitile area at a pirit, a pint. Ir all without heat, in a velle! well he mad, for a few days; then in am on the tine are.

[&]quot; A very go it said in a frainfe for the main' flor two or three one of the soil old for collection

In rheumatic complaints, a tea-spoonful of this tincture may be taken in a cup of the infusion of water-trefoil, wice or thrice a-day.

Tinclure of Black Hellebore.

Infuse two ounces of the roots of black hellebore, bruiled, in a pint of proof spirit, for seven or eight days; then filter the tincture through paper. A scruple of cochineal may be intufed along with the roots, to give the tincture a colour.

In obstructions of the menfes, a tea-spoonful of this tincture may be taken in a cup

of camomile or penny-royal tea twice a-day.

Astringent Tincture.

Digest two ounces of gum kino, in a pint and a half of brandy, for eight days; afterwards ftrain it for use.

This tin clure, though not generally known, is a good aftringent medicine. With this view, an ounce, or more, of it may be taken three or four times a-day.

Tincture of Myrrh and Aloes.

Take of gum myrrh, an ounce and a half; hepatic aloes, one ounce. Let them be reduced to a powder, and infused in two pints of reclified spirits, for fix days, in a gentle heat; then ftrain the tincture.

This is principally used by surgeons for cleansing foul ulcers, and restraining the progress of gangrenes. It is also, by some, recommended as a proper application to

Tincture of Opium, or Liquid Laudanum.

Take of crude opium, two ounces; spirituous aromatic water, and mountain wine, of each ten ounces. Diffolve the opium, fliced, in the wine, with a gentle heat, frequently flirring it; afterwards add the fpirit, and firain off the tincture.

As twenty-five dreps of this tincture contain about a grain of opium, the common

dofe may be from twenty to thirty drops.

Sacred Tindure, or Tindure of Hiera Picra.

Take of inccotorine aloes in powder, one ounce: Virginian inake-root and gingon of each two drachms. Infuse in a pint of mountain wine, and half a pint of brandy, for a week, frequently shaking the bottle, then strain off the tincture.

This is a fafe and ufeful purge for perfons of a languid and phlegmatic habit; but is thought to have better effects, taken in small doses as a laxative.

The dose, as a purge, is from one to two ounces.

Compound Tindure of Senna.

Take of fenna, one ounce; jalap, coriander feeds and cream of tartar, of each half an ounce. Infufe them in a piut and a half of French brandy for a week; then Grain the tincture, and add to it four ounces of fine fugar.

This is an agreeable purge, and answers all the purposes of the Elixir falatis, and of Daffy's Easter.

The dole is from one to two or three ounces.

Tinclure of Spanish Flies.

Take of Spanish slies, reduced to a fine powder, two ounces; spirit of wine, one pint. Insufe for two or, three days; then strain off the tincture.

This is intended as an aerid stimulant for external use. Parts asserted with the palfy or chronic resumatism may be frequencly rubbed with it.

Tinclure of the Balfam of Tolu.

Take of the ballam of Tolu, an ounce and a half; reclified spirit of wine, a pint Infuse, in a gentle heat, until the balfam is diffolved; then strain the tincture.

This tincture possesses at the virtues of the balam. In coughs, and other complaints of the breast, a tea-spoonful or two of it may be taken in a bit of loaf sugar. But the best way of using it is in syrup. An ounce of the tincture, properly mixed with two pounds of simple syrup, will make what is commonly called the Balsanie Syrup.

Tindure of Rhubarb.

Take of rhubarb, two ounces and a half; leffer cardamom feeds, half an ounce; brandy, two pints. Digeft for a week, and firain the tinefure.

Thefe who choose to have a vinous tineture of rhubarb, may infuse the above ingredients in a bottle of Lisbon wine, adding to it about two ounces of proof spirits.

If half an ounce of gentian root, and a drachm of Virginian fnake-root be added to

the above ingredients, it will make the bitter tincture of thubarb.

All these tinctures are designed as stomachies and corroborants as well as purgatives. In weakness of the stomach, indigestion, basity of the intestines, fluxes, cholicky and such-like complaints, they are frequently of great service. The dose is from half a spoonful to three or sour spoonfuls or more, according to the circumstances of the patient, and the purposes it is intended to answer.

Paregoric Elixir.

Take of flowers of benzoin, half an ounce; opium, two drachms. Infuse, in one pound of the volatile aromatic spirit, for four or five days, frequently shaking the bottle; afterwards strain the clixir.

This is an agreeable and fafe way of administering opium. It eases pain, allays tickling coughs, relieves difficult breathing, and is uteful in many disorders of children, particularly the hooping cough.

The dole to an adult is from fifty to a hundred drops.

Sacred Elixir.

Take of rhubarb cut fmall, ten drachms; fuccotorine aloes, in powder, fix drachms; leffer cardamom feeds, half an ounce; French brandy, two pints. Infufe for two or three days, and then ftrain the elixir.

This ufeful stomachic purge may be taken from one ounce to an ounce and a half.

Stomachic Elixir.

Take of gentian root, two ounces; Curaffao oranges, one ounce; Virginian snakeroot, half an ounce. Let the ingredients be bruifed, and insufed for three or four days in two pints of French brandy; afterwards strain out the elixir.

in two pints of French brandy; afterwards strain out the clixir.

This is an elegant stomachic bitter. In flatulencies, indigestion, want of appetite, and such-like complaints, a small glass of it may be taken twice a-day. It, likewise, relieves the gout in the stomach, when taken in a large dose.

Acid Elixir of Vitriol.

Take of the aromatic tincture, one pint; oil of vitriel, three ounces. Mix them gradually, and after the faces have fubfided, filter the clixir through paper, in a glafs funnel.

This is one of the best medicines which I know for hysteric and hypochondriac patients, afflicted with statulencies arising from relaxation or debility of the stomach and intestines. It will succeed where the most celebrated stomachic bitters have no effect. The dose is from ten to forty drops, in a glass of wine or water, or a cup of any bitter insusing, twice or thrice a day. It should be taken when the stomach is most empty.

Camphorated Spirit of Wine.

Dissolve an ounce of camphor in a pint of rectified spirits.

This folution is chiefly employed as an embrocation in bruifes, palifes, the chronic rheumatifing and for preventing gangrenes.

The above quantity of camphor, dissolved in half a pound of the volatile aromatic spirit, makes Wara's Effence.

Spirit of Mindererus.

Take of volatile fal ammoniae, any quantity. Pour on it gradually, diffilled vinegar, till the effervescence ceases.

This medicine is useful in promoting a discharge both by the skin and urinary pas-

fages. It is also a good external application in strains and bruises.

When intended to raife a fwcat half an ounce of it in a cup of warm gruel may be given to the patient in bed every hour till it has the defired effect.

VINEGARS.

TINEGAR is an acid produced from vinous liquors by a fecond fermentation. It is an useful medicine both in inflammatory and putrid diforders. Its effects are, to cool the blood, quench thirft, counteract a tendency to sutrefaction, and allay merainate motions of the fysical. It, likewife, promotes the natural secretions, and, in some cases, excites a copions sweat, where the warm medicines, called alexiphermic, tend rather to prevent that falutary evacuation.

Weakness, faintings, vomitings, and other hysteric affections, are often relieved by vinegar applied to the mouth and note, or received into the Romach. It is of excellent use, also, in correcting many poisonous substances, when taken into the stomach; and in promoting their expulsion, by the different emunctories, when received into the

Vinegar is not only an ufeful medicine, but ferves, likewife, to extract, in tolerable perfection, the virtues of feveral other medicinal fubliances. Most of the odoriferous flowers impart to it their fragrance, together with a beautiful purplish or red colour. It also affifts, or coincides with the intention of squills, garire, gum ammoniae, and ieveral other valuable medicines.

These effects, however, are not to be expected from every thing that is fold under

the name of vinegar, but from such as is found and well prepared.

The best vinegers are those prepared from French wines.

It is necessary, for some purposes, that the vinegar be distilled, but as this operation requires a particular chemical apparatus, we shall not insert it.

Vinegar of Litharge.

Take of litharge, half a pound; flrong vinegar, two pints. Infuse them together in a moderate heat for three days, frequently shaking the vessel; then filter the li-

This medicine is little used, from a general notion of its being dangerous. There is reason, however, to I sieve, that the preparations of lead with vinegar are possesfed of fome valuable properties, and that they may be used, in many cases, with fafety and fuccels.

A preparation of a fimilar nature with the above has, of late, been extolled by Goulard, a French furgeon, as a fafe and extensively useful medicine, which he calls the

Extract of Saturn, and orders to be made in the following manner:

Take of litharge, one pound; vinegar, made dt brench wine, two pints. Put them together into a glazed earthen pipkin, and let them boil, or rather finmer, for an hour, or an hour and a quarter, taking care to fir them all the while with a wooden spatula. After the whole has stood to settle, pour off the liquor which is upon the top into bottles for ufc.

With this extract, Goulard makes his vegeto-mineral water, which he recommend. in a great variety of external diforders, as inflammations, burns, bruifes, fprains, ul-

cers, &c.

He, likewife, prepares with it a number of other forms of medicine, as poultices, plaisters, cintments, powders, &c.

Vinegar of Roses.

Take of red rofes, half a pound; strong vinegar, half a gallon. Infuse in a close veffel, for feveral weeks, in a gentle heat; and then strain off the liquor.

This is principally used an embrecation for head-achs, &c.

Vinegar of Squills.

Take of dried squills, two ownces; diffilled vineger, two pints. Insuse for tendays or a fortnight in a gentle degree of heat, afterwards strain off the liquor, and add to it about a twelfth part its quantity of proof spirits.

This medicine has good effects in diforders of the breast, occasioned by a load of

vifeid phlegm. It is also of use in hydropic cases for promoting a dif-harge of urine. The dole is from two dischms to two ounces, according to the intention for which it is given. When intended to act as a vomit, the dole ought to be large. In other cases, it must not only be exhibited in famili doses, but also mixed with cinnamon-water, or some other agreeable aromatic liquor, to prevent the nausea it might otherwife occasion.

WATERS BY INFUSION, &...

Lime-Water.

POUR two gallons of water gradually upon a pound of fresh burnt quickline; and when the ebullition ccases, shir them well together; then suffer the whole to stand at rest, that the lime may settle, and afterwards filter the liquor through paper, which is to be kept in veffels closely floot.
The lime-water from calcined oyster-shells, is prepared in the same manner.

Lime-water is principally used for the gravel; in which case, from a pint to two or more of it may be drank daily. Externally it is used for washing foul ulcers, and removing the itch, and other difeases of the ikin.

Compound Lime-IV ater.

Take shavings of guafarum wood, half a pound; liquorice root, one ounce; fassa-fras bark, half an ounce; coriander seeds, three drachms; simple lime-water, six

Infuse without heat for two days, and then strain off the liquor.

In the fame manner may lime-water be impregnated with the virtues of other vegetable fubstances. Such impregnation not only renders the water more agreeable to the palate, but also a more efficacious medicine, especialty in cutaneous disorders,

It may be taken in the fame quantity as the simple water.

Sublimate Water.

Diffolve eight grains of the corrolive fublimate in a pint of cinnamon-water. If a fironger folution is wanted, a double or triple quantity of fublimate may be

The principal intention of this is to cleanfe foul ulcers, and confume proud flesh.

Styptic Water.

Take of blue vitriol and alum, each an ounce and a half; water, one pint. Boil them until the falts are diffolved, then filter the liquor, and add to it a drachm of the oil of vitriol.

This water is used for stopping a bleeding at the nose, and other hæmorrhages; her which purpose cloths or dossils dipt in it must be applied to the part.

Tar Water.

Pour a gallon of water on two pounds of Norway tar, and stir them strongly together with a wooden rod : after they have flood to fettle for two days, pour off the

Though tar-water falls greatly short of the character which has been given of it, yet it possesses some medicinal virtues. It sensibly raises the pulse, increases the secretions, and sometimes opens the body, or occasions vomiting.

A pint of it may be drank daily, or more, if the flomach can bear it. It is generally endered to be taken on an empty flomach, viz. four ounces morning and evening, and the fame quantity about two hours after breakfast and dinner.

SIMPLE DISTILLED WATERS.

GRE YT number of distilled waters were formerly kept in the shops, and are A faill : etained in some Dispensatories. But we consider them chiefly in the light of grateful diluents, fuitable vehicles for medicines of greater efficacy, or for rendering difguftful ones more agreeable to the palate and flomach. We shall, therefore, infert only a few of those which are best adapted to these intentions.

The management of a still being now generally understood, it is needless to spend time in giving directions for that purpose.

Cinnamon Water.

Steep one pound of cinnamon bark, bruifed, in a gallon and a half of water, and one pint of brandy, for two days; and then diftil off one gallon.

This is an agreeable aromatic water, possessing, in a high degree, the fragrance

and cordial virtues of the spice.

Pennyroyal Water.

Take of pennyroyal leaves, dried, a pound and a half; water, from a gallon and a half to two gallons. Draw off, by diffillation, one gallon.

This water possesses, in a confiderable degree, the smell, taste, and virtues of the

plant. It is given in mixtures and juleps to hysteric patients.

An infusion of the herb in boiling water answers nearly the same purposes.

Peppermint Water.

This is made in the fame manner as the preceding.

Spearmint Water.

This may also be prepared in the same way as the penny-royal water.

Both these are useful Homachic waters, and will sometimes relieve vomiting, especially when it proceeds from indigestion, or cold viscid phlegm. They are likewise useful in some colicky complaints, the gout in the stomach, &c. particularly the pep-

An infusion of the fresh plant is frequently found to have the same effects as the

distilled water.

Rose Water.

Take of rofes fresh gathered, fix pounds; water, two gallons. Distil off one gallon.

This water is principally valued on account of its fine flavour.

Jamaica Pepper Water.

Take of Jamaica pepper, half a pound; water, a gallon and a half. Diffil off one

This is a very elegant diffilled water, and may, in most cases, surely the place of the more coffly fpice waters.

SPIRITUOUS DISTILLED WATERS.

Spirituous Cinnamon Wister.

TAKE of cinnamon bark, one pound; proof spirit, and common water, of each 1. one gallon. Steep the cinnamon in the liquor for two days; then dittil off one gallon.

Spirituous Jamaica Pepper Water.

Take of Jamaica pepper, half a pound; proof spirit, three gallons; water, two g-llons. Diftil off three gallons.

This is a fufficiently agreeable cordial, and may supply the place of the Aromatic

By ater.

Alum Whey.

BOIL two drachms of powdered alum in a pint of milk till it is curdled; then frain out the whey.

This whey is beneficial in an immoderate flow of the menfes, and in a diabetes, or ex-

cellive discharge of urine.

The dose is two, three, or four ounces, according as the stomach will bear it, three times a-day. If it should occasion vomiting, it may be diluted.

Mustard Whev.

Take milk and water, of each a pint; bruifed mustard-feed, an ounce and a half-Boil them together till the curd is perfectly separated; afterwards strain the whey

through a cloth.

This is the most elegant, and by no means the least efficacious method of exhibiting mustard. It warms and invigorates the habit, and promotesthe different secre-tions. Hence, in the low-state of nervous severs, it will often supply the place of wine. It is also of use in the chronic rheumatism, palfy, dropsy, &c. The addition of a little fugar will render it more agreeable.

The dose is an ordinary tea-cupful four or five times a-day.

Scorbutic Whey.

This whey is made by boiling half a pint of the fcorbutic juices in a quart of cow's milk. More benefit, however, is to be expected from eating the plants, than from their expressed juices.

The scorbutic plants are, bitter oranges, brooklime, garden scurvy-grass, and wa-

ter-creffes.

A number of other wheys may be prepared nearly in the fame manner, as orange whey, cream of tartar whey, &c. These are cooling, pleasant drinks in severs, and may be rendered cordial, when necessary, by the addition of wine.

WINES.

THE effects of wine are, to raife the pulse, promote perspiration, warm the habit, and exhibitate the spirits. The red wines, he sides these effects, have an astringent quality, by which they firengthen the tone of the flomach and inteffines, and by this means prove ferviceable in reftraining immoderate fecretions.

The this finarp wines have a different tendency. They pass off freely by the different emunctories, and gently open the body. The effects of the full-bodied wines are, however, much more durable than those of the thinner.

All I weet wines contain a glutinous substance, and do not pass off freely. Hence, they will heat the body more than an equal quantity of any other wine, though it should contain fully as much spirit.

From the obvious qualities of wine, it must appear to be an excellent cordial medi-

cine. Indeed, it is worth all the rest put together.

But to answer this character it must be found and good. No benesit is to be expected from the common trash that is often fold by the name of wine, without posses. fing one drop of the juice of the grape. Perhaps, no medicine is more rarely obtained than genuine wine.

Wine is not only used as a medicine, but is also employed as a menstruum for extracting the virtues of other medicinal fubstances; for which it is not all-adapted, being a compound of water, inflatomable fpirit, and acid: by which means it is enabled to act upon vegetable and animal furstances, and also to dislolve some bodies of the metallic kind, so as to impregnate itself with their virtues, as fleel, antimony, &c.

Anthelmintis Winc.

Take of rhubarb, balf an ounce; worm field, an ounce Pro Cithern, an' Tolk without heat in two plats of red port wine for all w days, then as an off he .

As the flomachs of persons afflicted with worms are always debilitated, red wing alone will often prove ferviceable: it must, however, have still better effects when joined with bitter and purgative ingredients, as in the above form.

A glass of this wine may be taken twice or thrice a-day.

Antimonial Wine.

Take a glass of antimony, reduced to a fine powder, half an ounce; Lisbon wine, eight ounces. Digeft, without heat, for three or four days, now and then shaking the bottle; afterwards filter the wine through paper.

The dose of this wine varies according to the intention. As an alterative and diaphoretic, it may be taken from ten to fifty or fixty drops. In a larger dole it generally

proves cathartie, or excites vomiting.

Bitter Wine.

Take of gentian root, yellow rind of lemon-peel, fresh, each one ownce; long pepper, two drachms; mountain wine, two pints. Infuse without heat for a week, and Prain out the wine for use.

In complaints arising from weakness of the stomach, or indigostion, a glass of this

wine may be taken an hour before dinner and supper.

Ipecacuanha Wine.

Take of ipecacuanha, in powder, one ounce; mountain wine, a pint. Infuse for three or four days; then filter the tincture.

This is a fafe vomit, and answers extremely well for such persons as cannot swallow the powder, or whole flomachs are too irritable to bear it.

The dose is from one ounce to an ounce and a half.

Chalybeate, or Steel Wine.

Take filings of iron, two punces; cinnamon and mace, of each two drachms; Rhenish wine, two pints. Infuse for three or four weeks, frequently shaking the bottle; then pass the wine through a filter.

In obstructions of the menses, this preparation of iron may be taken, in the dose of

half a wine-glass twice or thrice a-day.

The medicine would probably he as good if made with Lisbon wine, snarpened with half an ounce of the cream of tartar, or a small quantity of the vitriolic acid.

Stomach Wine.

Take of Peruvian bark, grossly powdered, an ounce; cardamom feeds, and orange peel, bruifed, of each two drachms. Infufe in a bottle of white port, or Lifbon wine,

for five or fix days; then strain off the wine.

I his wine is not only of fervice in debility of the flomach and inteflines, but may also be taken as a preventative, by persons liable to the intermittent sever, or who refide in places where this d'feafe prevails. It will be of use, likewise, to those who recover flowly after fevers of any kind, as it affifts digestion, and helps to restore the tone and vigour of the fystem.

A glass of it may be taken two or three times a day.

GLOSSARY.

LTHOUGH terms of art have been sedulously avoided in the com-A position of this treatife, it is impossible entirely to banish technical phrases when writing on medicine, a science that has been less generally attended to by mankind, and continues, therefore, to be more insected with the jargon of the schools, than, perhaps, any other. Several perfons having expressed their opinion, that a Glossary would make this work more generally intelligible, the following concife explanation of the few terms of art that occur, has been added in compliance with their sentiments, and to fulfil the original intention of this treatise. by rendering it intelligible and useful to all ranks and classes of mankind.

Abdomen. The belly.

Absorbents. Vessels that convey the nourishment from the intestines, and the secreted fluids from the various cavities into the mass of blood.

Acrimony. Corrofive fliarpness.

Acute. A difease, the symptoms of which are violent, and tend to a speedy termination, is called acute.

Adult. Of mature age. Adult. Dry, warm.

Antispasmodic. Whatever tends to prevent or remove spasin. Aphtha. Small whitish ulcers appearing in the mouth.

Astriction. A tightening or lessening.

Atrabilarian. An epithet commonly applied to people of a certain temperament, marked by a dark complexion, black hair spare diet, &c. which the ancients supposed to arise from the atra bilis, or the black bile.

Bile, or Gall. A fluid which is fecreted by the liver into the gall-bladder, and from thence passes into the intestines, in order to promote

Cacochymie. An unhealthy state of the body.

Caries. A rottenness of the bone.

Chyle. A milky fluid separated from the aliment in the intestines, and conveyed by the absorbents into the blood to supply the waste of the animal body.

Chronic. A difease whose progress is slow, in opposition to acute. Circulation. The motion of the blood, which is driven by the heart

through the arteries, and returns by the veins.

Comato/e. Sleepy.

Conglobate Gland. A simple gland. Conglomerate. A compound gland. Contagion. Infectious matter.

Cutis. The skin.

Cutaneous. Of or belonging to the fkin-

Crifis. A certain period in the progress of a disease, from whence a decided alteration either for the better or the worse takes place.

Critical, Decisive or important.

Critical days. The fourth, fifth, feventh, ninth, eleventh, thirteenth, fourteenth, feventeenth, and twenty-first, are, by some authors, denominated critical days, because febrile complaints have been obferved to take a decifive change at these periods.

Debility. Weakness.

Delirium. A temporary disorder of the mental faculties.

Diaphragm. A membrane separating the cavity of the cheft from that of the belly.

Diuretic. A medicine that promotes the secretion of urine.

Drastic is applied to such purgative medicines as are violent or harsh in their operation.

Empyema. A collection of purulent matter in the cavity of the breaft.

Endemic. A difease peculiar to a certain district of country.

Epidemic. A difease generally infectious. Exacerbation. The increase of any disease.

Fæces. Excrements.

Fætid. Emitting an offensive smell.

Fætus. The child before birth, or when born before the proper period,

is thus termed.

Flatulent. Producing wind. Fungus. Proud flesh.

Gangrene. Mortification.

Gummata. Veneral excrescences.

Gymnastic. Exercise taken with a view to preserve or restore health .-The ancient physicians reckoned this an important branch of medicine.

Hellic Fever. A flow confuming fever, generally attending a bad habit of body, or fome incurable and deep-rooted difeafe.

Hæmorrhoids. The piles. Hæmorrhage. Discharge of blood.

Hypochondriacism. Low spirits.

Hypochondriac viscera. The liver, spleen, &c. so termed from their situation in the hypochondriac or upper and lateral parts of the belly.

Ichor. Thin bad matter.

Imposthume. A collection of purulent matter.

Inflammation. A furcharge of blood, and an increased action of the veffels, in any particular part of the body.

Ligature. Bandage. Lixivium. Ley.

Miliary Eruption. Eruption of small pustules resembling the seeds of

Murbific. Causing disease, or diseased.

Mucus. The matter discharged from the nose, lungs, &c.

Mysentery. A double membrane which connects the intestines to the back bone.

Nervous. Irritable.

Nausea. An inclination to vomit.

Modes. Enlargement of the bones produced by the venereal difease.

Pedoral. Medicines adapted to cure difeases of the breast.

Pelvis. The bones fituated at the lower part of the trunk; thus named from their resembling, in some measure, a bason.

Peritonaum. A membrane lining the cavity of the belly and covering the intestines.

Pericardium. Membrane containing the heart.
Perspiration. The matter discharged from the pores of the skin in form of vapour or sweat.

Phlogiston is here used to signify somewhat rendering the air unfit for the purposes of respiration.

Phlegmatic. Watery, relaxed. Plethoric. Replete with blood.

Polypus. A diseased excrescence, or a substance formed of coagulable lymph, frequently found in the large blood-vessels.

Pus. Matter contained in a bile.

Regimen. Regulation of diet.

Rectum. The straight gut, in which the foces are contained. Respiration. The act of breathing.

Saliva. The fluids secreted by the glands of the mouth. Sanies. A thin bad matter, discharged from an ill-conditioned fore.

Schirrous. A state of diseased hardness. Slough. A part separated and thrown off by suppuration.

Spajm. A diseased contraction. Spine. The back bone.

Styptic. A medicine for stopping the discharge of blood.

Syncope. A fainting-fit attended with a complete abolition of fenfation and thought.

Tabes. A species of consumption.

Temperament. A peculiar habit of body, of which there are generally reckoned four, viz. the fanguine, the bilious, the melancholic, and the phlegmatic.

Vertigo. Giddiness.

Ulcer. An ill-conditioned fore.

Ureters. Two long and finall canals, which convey the urine from the kidniesto the bladder.

Urethra. The canal which convey the urine from the bladder.

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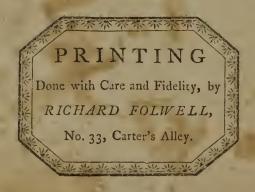
ZRRATA.

In page 183, for jalop, read jalop.

303. for balilion, read biflieum.
In the note, page 320, for Electuary, read Electricity.

330, for recompose, read decompose.

333, for greater read great.



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phinicoll, thello 1801 e spanile In Ireland the leaves of the common mullein are popularly supposed to be useful in cases of consumption, and observations lead to the conclusion that they really tend to increase the weight of patients suffering from the disease in the early stages, while they greatly relieve phthisical cough. The remedy is administered by boiling the leaves in milk—in the proportion of a pint of a milk to an ounce of dried leaves or a corresponding quantity of fresh ones-and giving hot.

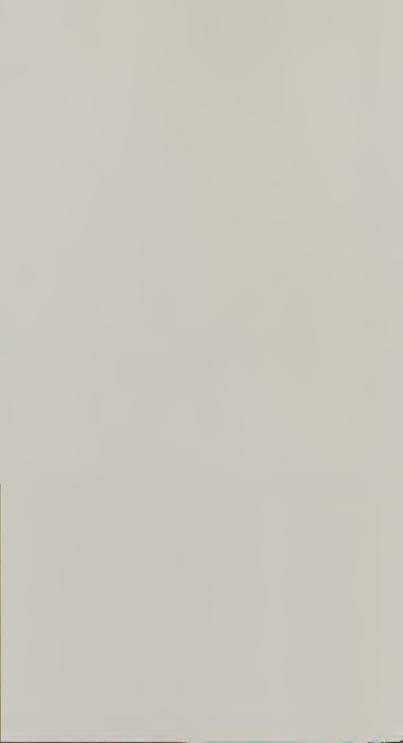




Buchan, William, *Domestic medicine or...*, WZ 270 B918d 1797g Condition when received: The full leather tight back binding was in poor condition. The sewing was intact; however, the leather was broken at both hinges. In addition, two fly pages in the back were detached. The leather was very weak and abraded, especially on the head and tail of the spine. Corners on the front and back covers were extremely worn to the extent that the inner paper boards were exposed and delaminating into layers. Page 5-6 suffered a tear 5 inches in length and loss of paper at the bottom corner. Six newspaper articles were randomly placed between book pages.

Conservation treatment: The leather was consolidated using 2% klucel G (hydroxypropylcellulose, BookMakers) in ethanol (Nasco). The leather hinges were reinforced on the inside using sekishu paper (inside hinges) and using strips of acrylic-toned sekishu paper (outside hinges). All mend papers were from The Japanese Paper Place and all hinge repairs were adhered with a three-part adhesive combination of wheat starch paste (zin shofu, Conservation Materials, Ltd.): methylcellulose (A4M, Talus): Jade 403M (University Products). Exposed cardboard corners were strengthened using wheat starch paste (above). A tear on page 5 was mended and missing paper replaced using tosa tengujo and kizukishi papers secured with wheat starch paste (above). Loose newspaper articles were interleaved between sheets of archival paper (PermaDur, Gaylord) and hinged at the gutter in the back using wheat starch paste (above).

Conservation carried out by Rachel-Ray Cleveland NLM Paper Conservator, 12/2005



An old nurse says that a poultice of cream and sulphur will wonderfully alleviate if not absolutely cure a cancer. The poultice must be thick, and the patient should drink cooling beverages and be kept quiet.

DAMSON PLUM SAVED HIS LIFE

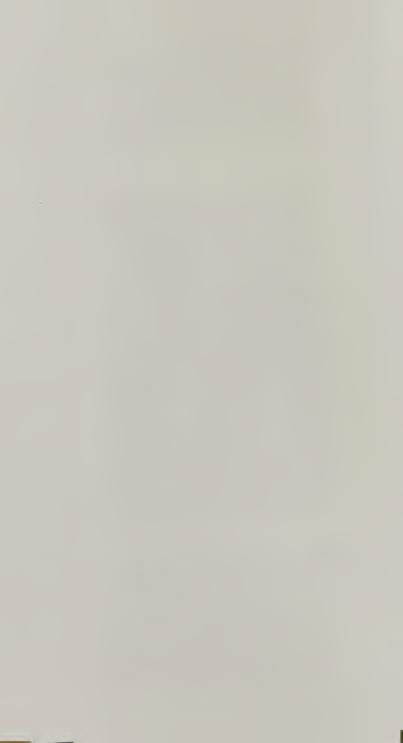
Vineland Victim's Hiccoughs Ceased When the Simple Remedy Was Applied

Special to The Inquirer.

VINELAND, N. J., Feb. 22.-That J. P. VINELAND, N. J., Feb. 22.—That J. P. Buck's life was saved by a Damsen plum is the firm belief of Mrs. Buck, who has patiently nursed her husband through thirteen days of terrible biccoughing. Among the many letters received from all over the country were eight or ten recommending Damsen plums as a remedy. The plums were obtained and one was administered, the sick man's ears being administered, the sick man's ears being stopped up while he held his breath as long as possible. The hiccough stopped immediately and this morning the patient is in a fair way to recover.

Mrs. Buck is very grateful for the interest the public has taken in her husband's illness and wishes to extend through The Inquirer her thanks to all persons who recommended remedies or made suggestions for the sick man's relief.

Bone Felon.—The London Lancet says: "As soon as the disease is felt, put directly over the spot a fly blister, about the size of your thumb nail, and let it remain for six hours, at the expiration of which time, directly under the surface of the blister, may be seen the felon, which can instantly be taken out with the point of a needle or a lancet."



A CERTAIN CORE FOR COLDS.—As the season for colds is approaching, I give you a remedy I have never kn own to fail:—three cents worth of hquorice; three cents worth of rock candy; three cents worth of gum-arabic; put them in a quart of water, simmer them till thoroughly dissolved, then add three cents worth of paregoric, and a like quantity of antimonial wine. Let it egol, and sip whenever the cough is troublesome. It is pleasant, infallible, cheap and good. Its coatle fifteen cents.

CORN MEAL Should very fine.
It injures the richness

INQUIRY.

CALAMUS.—Warren County, N. J.—Will some one of the numerous contributors to the "Dollar Newspaper" inform a subscriber how to destroy calamus in wet meadows?

J. Z.

[Written for the Dollar Newspaper—Philada.] Recipes for the Cure of Diseases in Horses.

The following Recipes are of great value for farmers' use, and either of them is worth the dollar paid out for the year's subscription to the "Dollar Newspaper." They have, all of them, been thoroughly tested, and with complete success:

CURE FOR SWEENT, OR BIG SHOULDER.—Two ounces of liquid opodeidoc; one ounce spirits of turpentine; two ounces of spirits of hartshorn; three ounces of alcohol; one ounce of tincture of Spanish flies; two ounces of oll of spike. This should be applied sparingly or it will blister.

CURE FOR BOTTS.—Give the horse one ounce of slacked lime three times a week for two or three

weeks. Mix it with his feed.

CURE OF FOUNDER IN HORSES.—Half a pint of vinegar; one gill of ground black mustard; mix and administer it to the horse; then put him in motion for an hour or two, or until he sweats thoroughly. This must be used within thirty-six hours after the founder.

CURE FOR GALLS, WOUNDS OR CUTS IN HORSES.

Mix the yolks of six eggs in half a pint of turpentine, and bathe the part several times each day. The cure will be very rapid.

K.

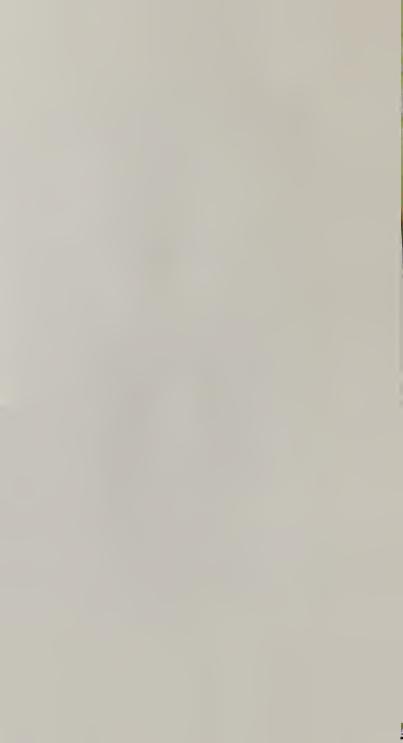
Clyde, Wayne Co., N. Y., 1858.

Choking—A Remedy.—It may not, perhaps, be known to all owners of cattle, that jumping an animal that has been choked, over as high a fence as they can clear easily, is a sure and effectual remedy. I have seen it tried in scores of instances, and many times when the harsher remedies have failed, and it always had but one effect—removed the cause. If one of your animals chokes by accident, drive it out to the fence, and by a long pole or hay-fork frighten it over, back and forth, until the substance is thrown from the throat. This you will probably have to do but once, as in the inhalation or exhalation of breath consequent upon so an unusual exertion, the substance lodged will be either thrown out or go down its throat. You may have to repeat the operation, but as a general rule once will be sufficient. Cut this out and paste it in your farm-book, for it is a simple and yet effectual remedy.



REMEDY FOR WHOOPING COUGH.

In Dr. George D. Gibbs's work on whooping cough published in London, in 1854, he recommended strong coffee as a specific for the cure of this disease. It has been tried in several instances with marked effect. In one ease, the patient was a little girl six years of age. There was not a single "whoop" after she began to take it. She took a tablespoonful and a half of very strong coffee, sweetened, but without milk, three times daily. A young child in the same family was well of the disease in three weeks; no other remedy was used in either case. another instance, in which we have recently tried it, the same happy result followed, the "whooping" symptom being at once arrested, and the complaint coming to a speedy termination. It is difficult to fix the dose definitely, and this may account for the unsatisfactory result in one or two instances we have heard of, in which a small dose was given .-Another important consideration which should not be lost sight of is, that threequarters, probably, of what is drank for coffee, is made from nothing but peas or beans. The only sure remedy is to get the coffee berry itself, and have it burnt and ground under one's own eye. The decoction should be given as strong as possible, and in a quantity only strong enough to cause the unpleasant stimulating effects of this beverage .-Children take it very readily. The last patient referred to above was only eighteen months old, and took onec a day half a cup of coffee thus prepared without the least no-+ able injurious effect



How'd of woods

MeJ. His W2-271 69181 17179

CIL

